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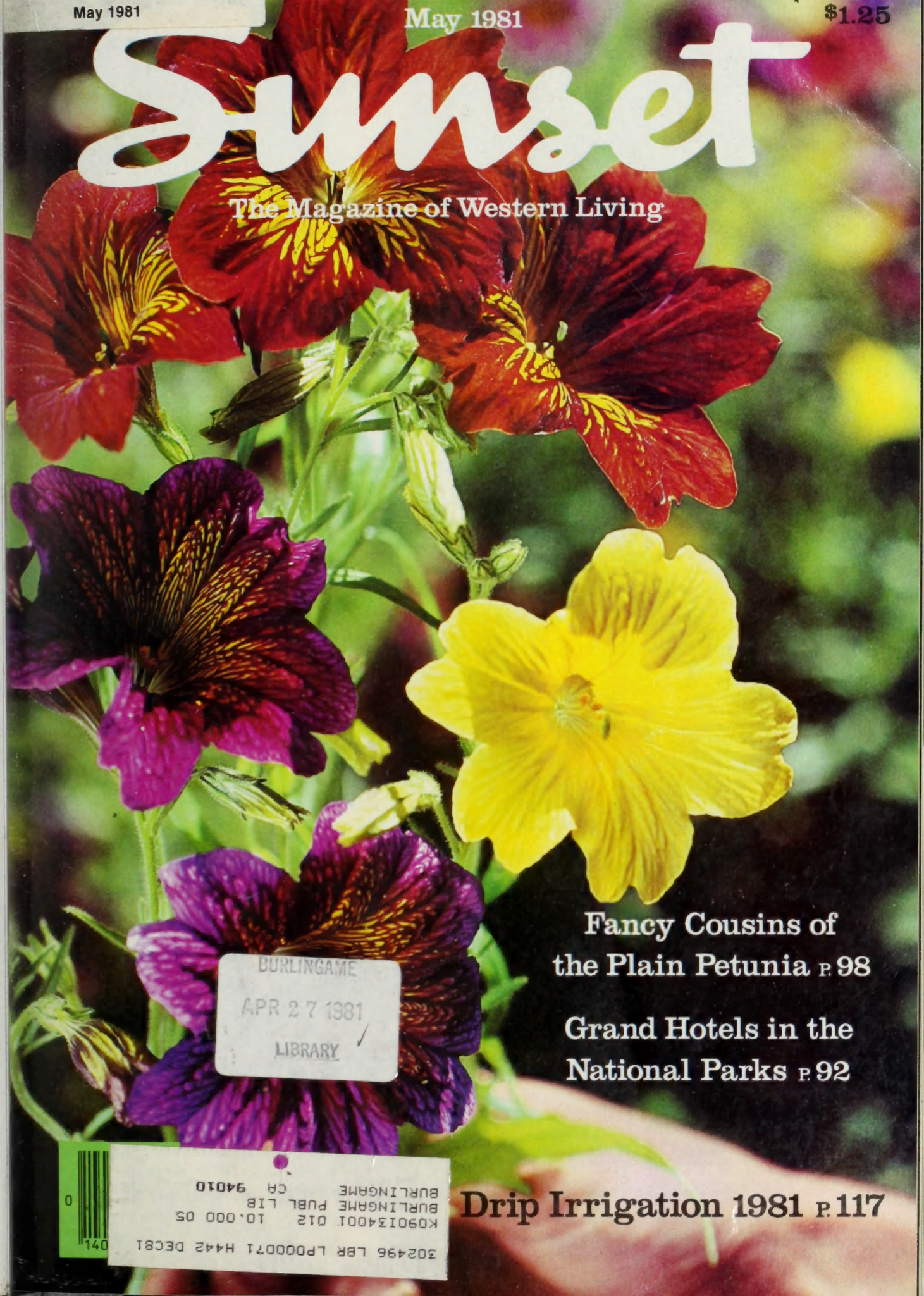
The Magazine of Western Living



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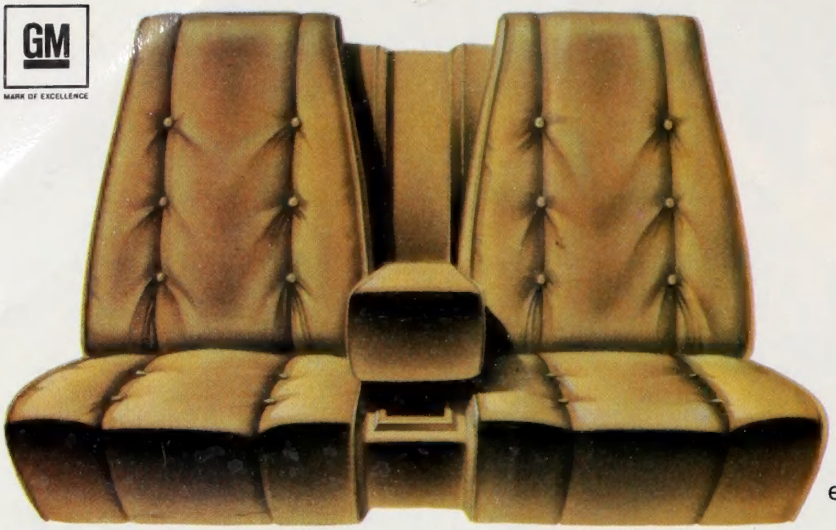
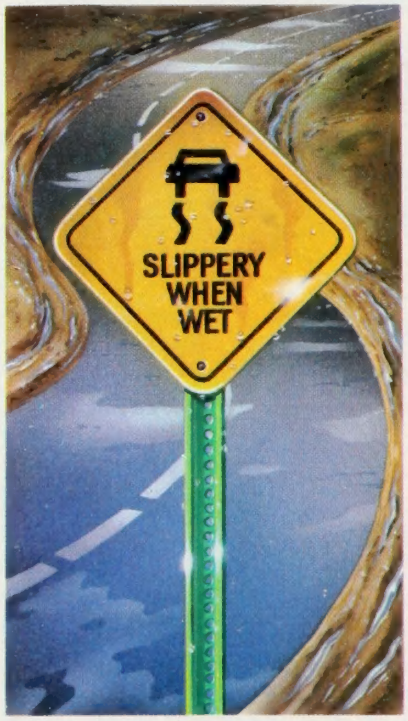


Obviously, a lot of people like our Skylark Limited because of its luxury.

24 EPA EST. MPG 36 EST. HWY.

Skylark gets a lot of votes for its stand on economy, thanks to its 2.5 liter four (with available automatic transmission, without air conditioning).*



In all kinds of climates, on all kinds of roads, drivers are very impressed with Skylark's front-wheel-drive traction.

Others like the fact that Skylark offers roomy accommodations for five—plus an accommodating trunk.

Lots of folks are taken with Skylark's good looks. And we modestly submit, who can blame them?

We couldn't get all the reasons people like Skylark on this page. But we sure got them into the car.

BUICK

*Use "estimated mpg" for comparison. Your mileage may differ depending on speed, distance, weather. Actual highway mileage lower. Estimates lower in California. Buicks are equipped with GM-built engines supplied by various divisions. See your dealer for details.

Sunset* The Magazine of Western Living*
THE PACIFIC MONTHLY *

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The Cover Story

Salpiglossis 'Splash' is their given name, but the blooms on our cover might be called 'Cinderella'. In nursery pots, they look like weeds; in the garden, they're standouts. For more on this and seven equally promising annuals, see page 98. Cover photograph by Steve W. Marley

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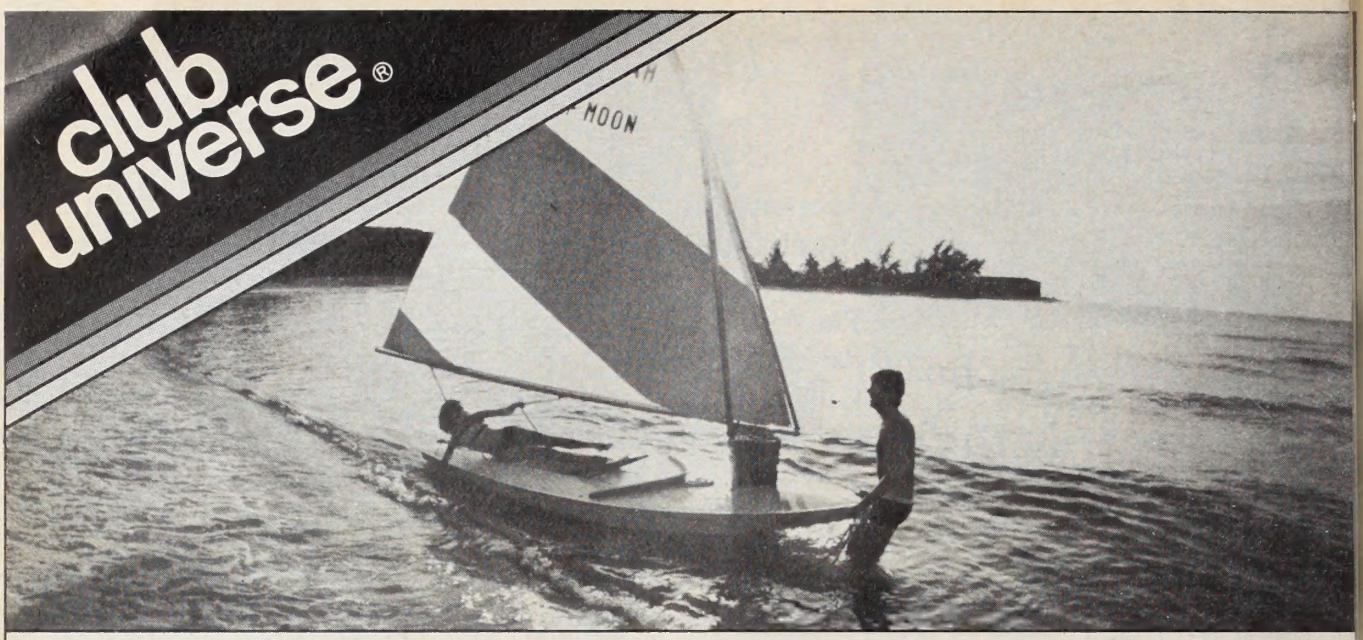

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Bees' doorway, *like a slot in a piggy bank, leads to glass hive inside brand-new Coyote Point Museum*

Predator/prey *pop-up game shows interdependence of local wildlife communities*

New landmark on Coyote Point

High on a bluff overlooking San Francisco Bay, the handsome new Coyote Point Museum blends well with its forested surroundings. Its theme, the ecology of San Mateo County, will introduce you to a startling variety of environments and habitats within this limited geographic area. Twelve years in the planning, the facility opens May 16 with festivities, music, speakers. You can join a tour or browse on your own.

The $1.9-million structure stairsteps down four levels; as you descend, you follow a path winding through six plant and animal communities—coniferous forest, chaparral, marsh, and so on—like the path taken by water as it flows east from the crest of the Santa Cruz Mountains to the Bay or west to the Pacific.

Each section presents a natural community—and human impact upon it—with an explanation of the ecological principles involved. In the coniferous forest display, for example, you can watch photosynthesis in action, see forest cycles illustrated, learn how fire and cutting affect the process. At many sections, there are films, hands-on games, photo-

GREGG MANCUSO

Soft-sculpture cone *shows what a red-tailed hawk eats in a year*

DON NORMARK

Park ranger *and Sunset reporter retreat from ruins of Kin ya'a. Post marks prehistoric debris*

We dig into the past in remote New Mexico

Great masonry ruins of the ancient Anasazi civilization are making archeological news at Chaco Culture National Historical Park in northwestern New Mexico.

Pictured at left are the ruins of Kin ya'a—one of 33 outlying Chacoan towns—which was brought into the park when it was created in January. Park status helps give this fragile remnant some protection from development of underground deposits of oil and uranium in the surrounding San Juan Basin.

To report on this newly designated park and the finds being uncovered there, *Sunset* associate editor Mary Ann Reese made a pilgrimage to Chaco Canyon. The article on page 100 can help you plan a similar visit of discovery. □

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graphs, soft sculptures. You'll also fin a marsh boardwalk and a walk-throu aquarium.

One ongoing show will be supplied y bees: there's an active hive under gl s, which bees enter and leave by way o a large see-through tube. Other displ s show busy ant and termite coloni s. Downstairs are classrooms for scho groups and a small gift shop. The m seum association also offers guided wa s in county parks and beaches; for m e information, call (415) 342-7755. o join (and get a monthly newslett), write to them at Coyote Point, San M teo, Calif. 94401; annual members p costs from $10 to $25.

The museum, in Coyote Point Recr tion Area in San Mateo, is open 10 t 5 Wednesday through Friday and 1 t 5 weekends. Museum admission is adults, 50 cents ages 6 through 17, un 6 free. Every Friday is a free day. Fr northbound U.S. Highway 101, take Peninsula Avenue exit and follow sig southbound, take the Poplar Ave e exit. Park entry fee is $2 per car.

Gourmet Wednesdays on Nob Hill

It's an appealing premise: since wine s most often served with food, conduc a wine tasting as part of a delicious mea

Four or five goblets of different wi s await the 30 who gather one Wednesd a month for lunch at Fournou's Ov s in San Francisco's Stanford Court Ho . As you taste a range of food and wi e combinations, out goes the white w fish, red with meat edict. Shirley Sar , food and wine consultant and tasti organizer, navigates the oenophi s through the shoals of salad ("Bread s the buffer between wine and salad" a "Lemon is just as hard on wine as s vinegar") and the doldrums of dess ("Champagne would be a nice textu contrast to the creamy dacquoise").

The price of this splurge is $32 all clusive. For reservations and to find o about upcoming menus, telephone (41 989-1910.

Irish dancers in San Jose: May 23 to 5

The spirit and athleticism of an Iri folk dance can take your breath away intricate, high-kicking steps beat out stacatto rhythm to the lilting of pen whistle and pipes. And this month y can see some of the best amateur Iris style dancers in California at a *feis rin* (festival of dancing) in San Jose.

Some 500 dancers will gather at the *fe* (pronounced "fesh") May 23 to 25. Y can see jigs, reels, hornpipes, step, a figure dancing by costumed groups of ages competing for trophies and hon From noon to 3 on Saturday, there w be prizes for singing and poetry.

The festival will be held at Yerba Bue High School Auditorium, 1855 Lucre

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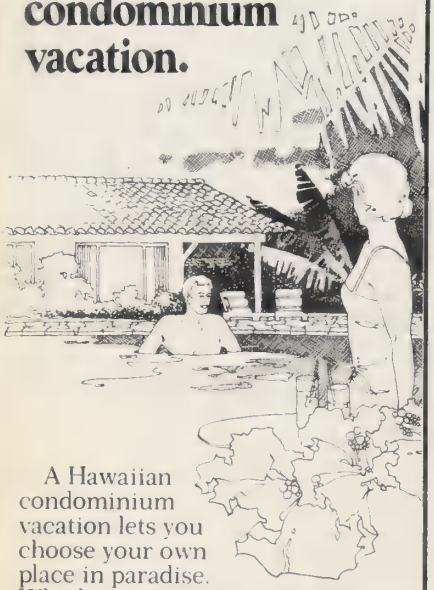

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Art at San Francisco's airport

This spring, San Francisco International Airport makes its debut as host to major cultural programs. *New Glass,* coming from the Metropolitan Museum of Art in New York, will be on view in the North Terminal now until May 31. Some 250 contemporary glass works by artists from all over the world will be shown.

Pieces range from the functional to the amusing. Among them are stained-glass windows, vases, goblets, and sculptures —all displayed in clear cases in front of windows to show off their sparkle and dazzling colors. The exhibit is open 24 hours a day, free. A catalog is available at the airport bookstore for $25.

Fitness for the not so fit— two new trail-courses in San Francisco

As weather begins to warm and longer days beckon, you may want to stretch out winter-wearied muscles. You can ease your way back into shape on either of two new exercise trails in San Francisco designed for the out-of-shape.

Actually they're walking paths, each dotted with 15 exercise stations, where you're directed to swing your legs, raise your arms, stretch some tendons, and generally shake out stiffness and tension. The programs are planned for people who have not exercised much and w to work slowly up to fitness level.

One course is at Fort Mason, bel the Golden Gate National Recrea Area offices near Bay and Gough str The other is on the west lawn of Le man Army Medical Center in the sidio (off Presidio Boulevard). Both free, open daily during daylight hou

GREGG MA

Push-up station *is one of 15 stops at new Fort Mason exercise course designe to work up fitness without sudden strain*

For travel planners, a May 1981 check list

Folklore study in Catskills. People 16 to 75 can join a scientific research team to study the area's music, folk medicine, cooking, and crafts. A two-week stay (July 19 to August 1 or August 2 to 15) costs $900, including meals, housing in Woodstock, background information, and guidance with the work. College credit is optional. For details on this and 70 other research expeditions in 30 countries, write to Earthwatch, Box 127, Belmont, Mass. 02178; (206) 634-3113 (Seattle), (213) 472-8710 (L.A.).

Condos in Mexico. Rent a condominium in Acapulco, Puerto Vallarta, Cancun, Mazatlan, Manzanillo, or Ixtapa for a minimum of three days. Daily costs for one or two people range from $40 to $250 in low season (April 20 to December 20) or from $60 to $350 in high season. (Prices for some deluxe condos are higher.) For a list of properties, write to Condo Resort International, 3303 Harbor Blvd., Suite K8, Costa Mesa, Calif. 92626; (800) 432-7059 (California), (800) 854-3823 (other states); call collect from Hawaii and Alaska.

Outdoor courses in Alberta. Starting from the Yamnuska Mountain School in the foothills of the Rockies west of Calgary, adults can learn mountaineering, whitewater canoeing, or rock climbing. Programs, mid-June through September, cost from $250 for one week to $1,100 for five weeks, including meals, transportation, some equipment; backpacks and sleeping bags can be rented. Write to Yamnuska Mountain School Rocky Mountain Y, Seebe, Alberta, Canada; (403) 673-3858.

Travel in Bhutan. Wedged between India and Tibet, this Himalayan kingdom of a million people admits only 1,500 tourists a year on escorted tours. You can fly from Calcutta to Baghdogra in Bangladesh, where an 8-day "Journey to Bhutan" leaves twice a month for Bhutan with its Buddhist road shrines and prayer flags, busy markets, ceremonial dances. Cost averages $130 a day for food, lodging, and travel within the country. Write to Bhutan Travel Service, 133 E. 55th St., New York 10022.

New York bed and breakfast. For information on rooms in private homes in residential Manhattan and Brooklyn ($22 to $36 single, $33 to $44 double, with continental breakfast), send a self-addressed, stamped envelope to Urban Ventures, 322 Central Park W., New York 10025; (212) 662-1234. □

What a travel agent can do for you: provide information on tours; help you plan a trip; reserve space on air, rail, bus, and ship lines; make hotel, ranch, and resort reservations. Travel agents usually do all this without charge, but they do charge for "custom" tour service.

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Index of Directories

School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

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beginning on page 13

WESTERN GROCERY DIRECTORY
beginning on page 211

GARDEN CENTER
beginning on page 296

SHOPPING CENTER
beginning on page 301

Camps

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Summer Camp Director: Marcia Blanchette

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Resident and Day

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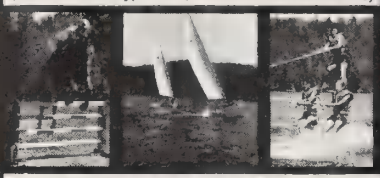

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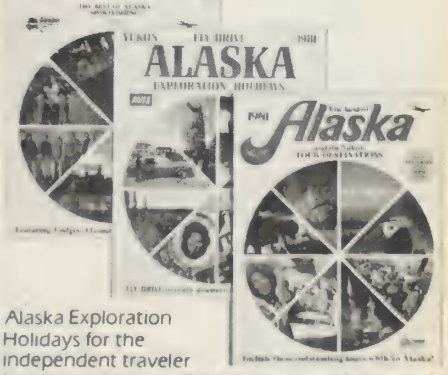

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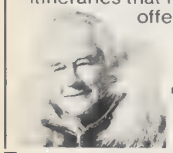

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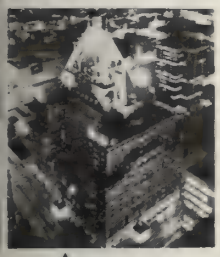

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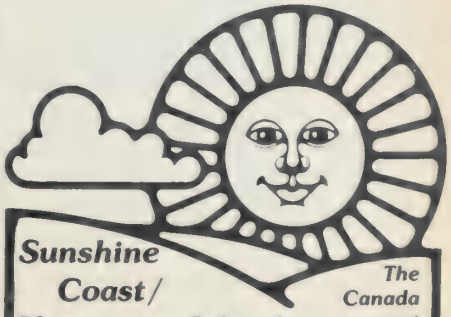

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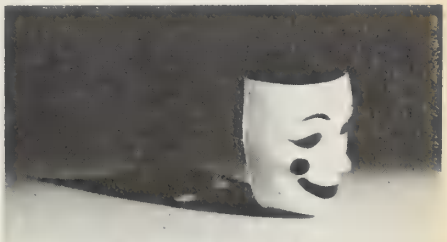

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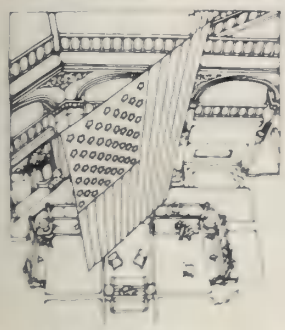

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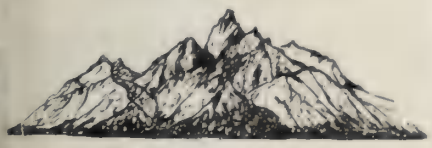

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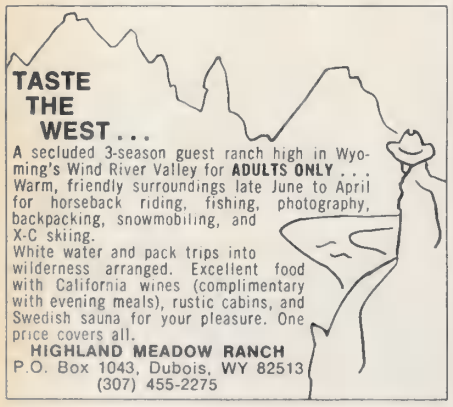

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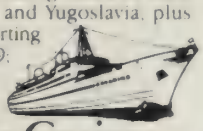

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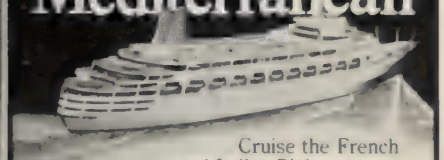

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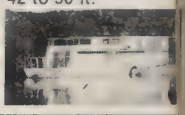

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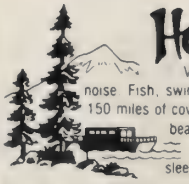

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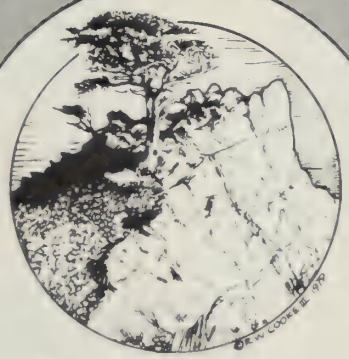

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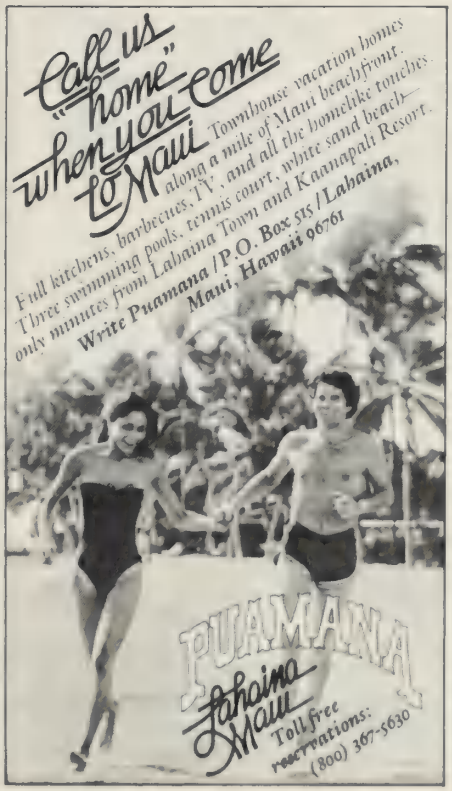

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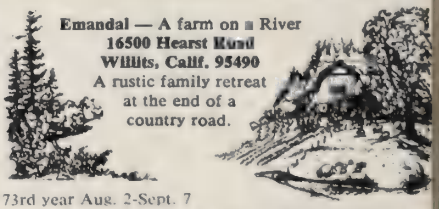

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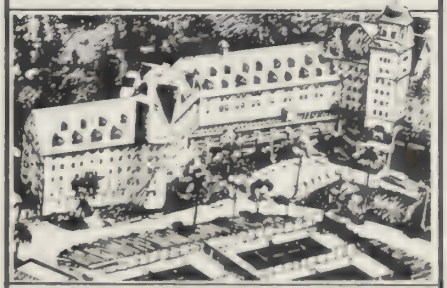

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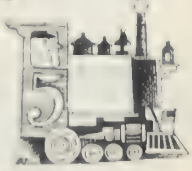

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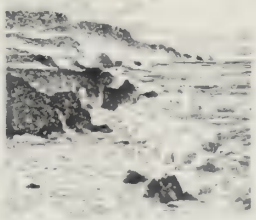

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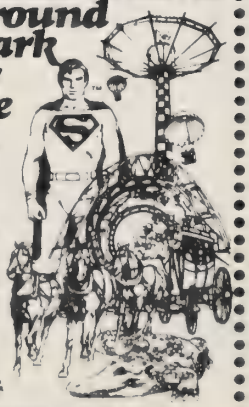

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ree official Hong Kong maps available t your hotel or at Hong Kong Tourist ssociation offices mark all station enrances with the MTR symbol.

he British-built Metro Cammell Weiann trains (similar to those used on ondon's Underground) run daily from A.M. to midnight, at 3- to 5-minute inervals during the day. As with all Hong Kong public transportation, try to avoid rowded commute rush hours from 7:30 o 9 A.M. and 4:30 to 6 P.M. □

The Sunset Travel Directory

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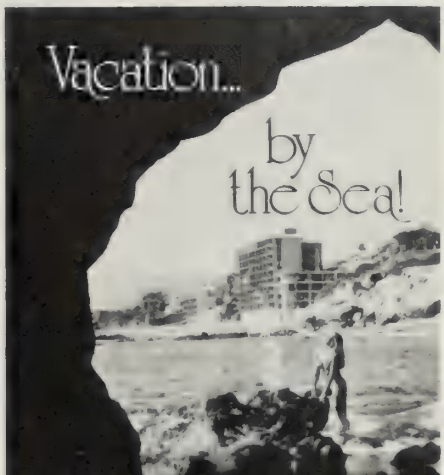

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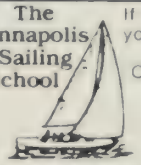

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Castanets clicking, *she sings and dances when not cooking paella*

JERRY FREDRICK

Saucer-size plates *add up to a meal's worth of assorted tapas at El Mesón*

Come to dinner in Spain . . . in the Bay Area

You needn't go all the way to Madrid or Barcelona to tour the flavors of Spain. Traditional Spanish food, not to be confused with Mexican cooking, is a natural in California, where the fresh vegetables and seafood essential to this cuisine abound. "Our food is lightly cooked and not heavily spiced," says one Spanish restaurateur. "We want the fresh natural flavors to play against one another."

In the Bay Area, Spanish restaurants are increasing; four new ones have opened just in the past 18 months. In Mill Valley, San Francisco, Palo Alto, and San Jose, you can now sample a variety of Spanish foods, including celebrated favorites such as paellas, gazpachos, *potajes de fabadas* (white bean pottage) and various *pescados* and *mariscos* (seafood and shellfish).

A special treat are the appetizers (*tapas* in Spanish) served from some of the bars. You can make a delightful meal by ordering an assortment of tapas. Breaded baby squid, grilled prawns or chorizo, and marinated vegetables are some of the choices. (See the January 1980 issue of *Sunset*, page 58, for tapas recipes.)

Your waiter can recommend a Spanish wine to complement your meal. The selection usually includes outstanding older wines priced from $6 to $10.

All of the restaurants listed here have entertainment. In most you'll hear flamenco or classical guitar, which lends its own romance to the atmosphere. And in some you'll see the colorful, vivacious, flamenco dance.

All telephone numbers are area code 415 unless otherwise noted.

To supplement your knowledge of Spanish cuisine, write to the Spanish National

Tourist Office (One Hallidie Plaza, Suite 801, San Francisco 94102) for a free pamphlet on the gastronomy of Spain.

Mill Valley

The Willow Restaurante - La Tasca, Reed Boulevard and Belvedere Drive (Strawberry Town & Country Village); 381-0800. A specialty is *cochinillo asado* (roast suckling pig). Classical Spanish guitar Tuesday through Sunday evenings. Open for lunch from 11:30 to 2:30 Tuesday through Friday, for dinner ($6.95 to $14.25) from 6 to 10 Tuesday through Thursday, 5 to 10 Friday through Sunday.

San Francisco

El Gallego Spanish Sea Food, 3166 24th Street; 824-3356. Dinners ($7.95 to $14) include five stuffed-seafood entrées. Flamenco and classical guitar Tuesday through Thursday. Lunch served Monday through Friday from noon to 2:30, dinner Sunday through Thursday 5 to 10, Friday and Saturday 5 to 11.

El Greco in The Cannery, 2801 Leavenworth Street; 771-0410. Tapas available all day at the bar. Classical and flamenco guitar 6:30 to 10:30 every evening. Open daily for lunch from 11:30 to 2:30, for dinner ($6.75 to $10.50) from 5:30 to 11.

El Mesón, 1333 Columbus Avenue (across from The Cannery); 928-2279. Indoor patio dining. Tapas available from the bar all day and evening. Guitar music Thursday through Saturday. Dinners ($7.75 to $10.50) served 6 to 11 Monday through Saturday, 5 to 10 Sunday. Open for lunch Monday through Friday from 11:30 to 3. Murals of Spain in dining area.

Flamenco Restaurant, 2340 Geary Boulevard (near Kaiser Hospital); 922-7670. Flamenco guitar and dance seven nights a week. Lunch served Tuesday through Friday from 11 to 3, dinner ($6 to $10) daily 5 to 11.

La Bodega, 1337 Grant Avenue; 398-9555. Paella ($8) is the only dish served here. Impromptu flamenco guitar and dance. Open for dinner 6:30 to 10 Wednesday through Saturday, 6:30 to 9:30 Sunday.

La Fuente Restaurant, 2 Embarcadero Center (podium level, third floor); 982-3363. Mexican and Spanish cuisine, Latin disco. Tapas served at the bar 5 to 7. Open Monday through Wednesday from 11 A.M. to 11 P.M., Thursday through Saturday from 11 A.M. to 2 A.M. Meals ($6.95 to $12.50) are prepared by a chef who is a native of Segovia.

Las Palomas Restaurant, 1399 46th Avenue; 661-6767. Live music: guitar Tuesday through Friday, organ Saturday and Sunday. Lunch served from 11 to 2:30 Tuesday through Friday, dinner ($7.25 to $10) from 5 to 10 Tuesday through Friday, 3 to 11 weekends.

Palo Alto

Suzanne's, 541 Bryant Street; 321-4826. Comfortable, quiet ambience. Classical guitar Friday and Saturday nights. Open for dinner ($8 to $13) from 6 to 10 Tuesday through Saturday.

San Jose

Don Quixote Restaurant, 206 El Paseo de Saratoga (in the El Paseo de Saratoga Shopping Center); (408) 378-1545. Spanish and Mexican cuisine. Flamenco music and dance 7:30 to 9:30 Friday and Saturday evenings. Open for lunch 11:30 to 4 Monday through Saturday, 12 to 4 Sunday. Dinner ($5.15 to $10.25) served 4 to 9 Sunday through Wednesday, 4 to 9:30 Thursday and Friday, 4 to 10 Saturday. □

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China's Bronze Age comes to L.A.

The Great Bronze Age of China has been very much in the news. Astonishing finds at several sites have delighted and puzzled archeologists and historians, and caused a reexamination of our concepts of early metallurgy.

A 105-piece show covering this period opened April 1 at the Los Angeles County Museum of Art. After June 1 it moves to a final appearance in Boston.

Unlike the general sampling of archeological objects from China that drew great attention when they toured the U.S. in 1974-75, this exhibit is limited in time from the 19th century B.C. to the 1st century A.D. It is composed mainly of bronze vessels, plus some jade objects—and eight larger-than-life terra cotta figures (six soldiers, two horses) from the more than 7,000 figures found in 1974 in the tomb of the First Emperor of Qin, unifier of China more than 2,000 years ago.

Pieces in this exhibit, many from excavations of the last two decades, are changing the historical perspective in China. The refinement of the oldest bronze, a small wine cup from the 17th century B.C., gives evidence that metal working was an advanced art well before then. Inscriptions on an 11th-century B.C. vessel found in 1976 commemorate the capture of nine bronze cauldrons that had heretofore been considered merely legends from China's Golden Age.

Tickets, tours. The museum, in Hancock Park at 5905 Wilshire Boulevard, is open 10 to 5 Tuesday through Friday, to 6 Saturday and Sunday. Admission to the exhibit is included in the $1 museum entrance fee; tickets are sold only on the day of use and are for a specified hour. Weekdays are expected to be less crowded than weekends. (Admission is free, with no hour specified, on the second Tuesday of each month, when doors are open noon to 9.)

If you have to wait, visit the museum's permanent collections, have lunch in the cafeteria, or wander over to the Rancho La Brea Tar Pits, where the Page Museum displays prehistoric skeletons.

Group tours for a minimum of 25 people are scheduled May 4, 11, and 18; cost is $5 per person. Nonprofit organizations may schedule after-hours tours for 100 or more people at $7.50 each. Call Carol Morehead, (213) 937-4250.

Lectures. Different 1-hour lectures on the exhibit will be given free in the museum's 700-seat theater on April 26 and May 3 at 3, and May 12 at 8 P.M. ☐

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GREGG MANCUSO

On stage *in front of Paul Masson's stone portal, guitarists and drummer back up Ramsey Lewis during jazz set*

PETER SCHAAF

Wall of glass *behind musicians in Sitka's auditorium looks out to Baranof Island*

JERRY FREDRICK

Fireworks spectacular *traditionally brings the season to a close at the Hollywood Bowl. Amplified sound system, recently redesigned, reaches all 18,000 seats*

Music festivals around the West . . . here is a 1981 rundown of 15 major ones

Every summer, Western amphitheaters and concert halls come alive with music —not just ordinary, crowd-pleasing music, but remarkable performances by master artists from around the world.

The diversity is astounding: string quartets tune up in an Alaskan outpost, headliners pack the 18,000-seat Hollywood Bowl, opera stars perform against the rugged Jemez Mountains near Santa Fe.

In fact, nearly every major Western city —and many a remote hamlet—boasts a summer music series or festival. Starting with a list of nearly 100 such events, we began to narrow it down to those of exceptional quality and ambience. Helping us were five music experts: Martin Bernheimer, critic for the *Los Angeles Times;* Robert Commanday of the *San Francisco Chronicle;* Glenn Giffin of the *Denver Post;* Arthur Grossman, concert bassoonist and professor of music at the University of Washington; and Carol Price Rabin, author of *A Guide to Music Festivals of America.*

Highest honors went to the 15 events described here. All are widely recognized for top-caliber performances year after year. All are scheduled between May and September, with at least seven days of performances, so they'll easily fit into vacation plans. And all are in locations worth a detour themselves.

(Continued on page 44)

"SOMEDAY"

we're going to see the other side
of the world. As soon as the kids
are grown. Or after retirement.
Or maybe after that.

Is that vacation of a lifetime really getting any closer? Or will you always have a wistful someday? It's really too bad, because the good values in air travel just might not be around next year. Your airline or travel agent can put you on a Boeing jetliner headed for your someday. Right this very day. Go. Soon. Before your somedays turn into never.

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With New Time-Zero Supercolor Film.

The photographs shown here not only illustrate the sophistication of one of the world's finest cameras, they also offer a Polaroid-eye-view of one of the world's most exclusive auction houses, Sotheby Parke Bernet.

1 This detail of an Aubusson tapestry testifies both to the visual splendor which abounds at Sotheby's and to the advantage of single lens viewing. Unlike all other instant cameras, the SX-70 AutoFocus is an SLR. So the composition you see through the lens is the picture you get.

2 As you can see, not all of the lovely things at Sotheby's are objets d'art. Note how new Polaroid Time-Zero Supercolor film faithfully reproduces not only the rich jewel tones of this young woman's costume but the subtler hues of her complexion as well.

3 The hands of Sotheby's master craftsman Gian Asaro, captured here restoring a 16th century figure, demonstrate Polaroid's amazing sonar autofocus system. While all you do is aim and shoot, the SX-70 AutoFocus sets the aperture and shutter and whips the lens into precise focus. Automatically.

4 Each time you open your SX-70 AutoFocus, a unique sharing experience unfolds. Both you and your subject can react to the world's fastest emerging color image in just 10 seconds. And as the picture develops, so does the chemistry.

5 Pictured here is an extreme close-up of a rare, Early American coverlet. No other camera lets you move in this close—as close as 10.4 inches—without expensive extra lenses.

6 You can almost feel the cool countenance of this magnificent marble bust. Because while other instant cameras have plastic lenses, the SX-70 AutoFocus has a fine, four-element glass lens that can give you the crisp, clear images you demand.

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No other instant camera comes close.

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ocus goes to Sotheby's.

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GREGG MANCUSO

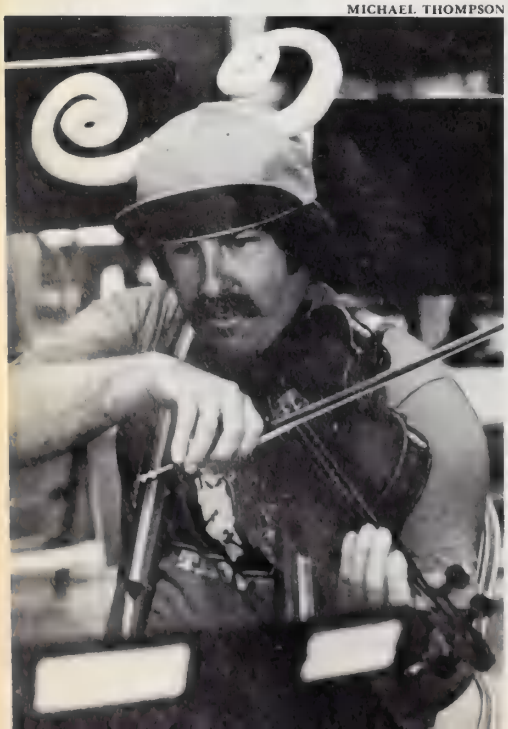
Candlelight and choir voices *fill the basilica at Carmel Mission. Seats inside sell out almost immediately, but rear doors are left open to let music drift out to listeners on patio*

DON NORMAN

Siegfried gets revenge *on his cruel foster father during third opera in the Ring cycle at Seattle*

On the light side: *violinist's playful cap sets the tone for informal family concerts at Peter Britt Gardens*

MICHAEL THOMPSON



Not surprisingly, many performances sell out early, so line up concert tickets and a place to stay as soon as possible. Concert brochures are available from the addresses listed; for help with lodging, check with the chamber of commerce or visitors' bureau.

All the festivals included here have had time to establish their reputations. But many newer festivals, given a few years' seasoning, may prove to be their match.

Alaska

Sitka Summer Music Festival, June 5 to 26. Each year, professional musicians travel thousands of miles to this logging and fishing town in southeast Alaska, where they perform unpaid in Tuesday and Friday evening chamber music concerts. Despite lack of publicity, the quality is exceptional. This summer's program features violinist Paul Rosenthal (the festival's founder), pianists Jerome Lowenthal and Edward Auer, violist Marcus Thompson, and other noted musicians, most of them students of Piatigorsky or Heifetz. Tickets are $6 ($4 for students and seniors). Box 907, Sitka 99835; (907) 747-6774.

California

Carmel Bach Festival, July 17 to August 2. Concertos and symphonies by Bach and his peers will highlight this year's concerts, recitals, lectures, and symposiums. Two candlelight performances of baroque church music will be held at the basilica of Carmel Mission; other evening concerts will be given at the 730-seat Sunset Center Theater. In its 44th year (26 with conductor Sandor Salgo), the festival is noted as much for its seacoast-village setting as for the quality of its music. Come prepared for "festival weather"—dense, chilling fog that

A hop away, sip
a Harvey Wallbanger
at poolside.

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often accompanies the concerts. Tickets cost $10 to $18. Box 575, Carmel 93921; (408) 624-1521.

Hollywood Bowl Summer Festival, July 1 to September 12. The summer home of the Los Angeles Philharmonic celebrates its 60th anniversary this year with the usual mix of classical and popular music best suited to the 18,000-seat amphitheater. This season's crowd-drawing lineup includes Andy Williams, Isaac Stern, George Shearing, James Galway, Itzhak Perlman, Jean-Pierre Rampal, and Misha Dichter, along with music director Carlo Maria Giulini and guest conductors Michael Tilson Thomas, Erich Leinsdorf, and John Williams. Performances are held Tuesday through Saturday evenings; early arrivals may bring picnic dinners—often elaborate—or order box suppers in advance from the Bowl. Tickets cost $1 to $20. Box 1951, Hollywood 90028; (213) 876-8742.

Music Academy of the West Summer Festival Series, June 30 to August 22. Santa Barbara's music academy is going into its 35th season, but this will be the first under the leadership of Theo Alcantra, conductor of the Phoenix Symphony. The Cleveland Quartet, Itzhak Perlman, Nathaniel Rosen, and other guest artists will join students and faculty in the Tuesday night chamber series and Saturday evening concerts. Three nights (August 15, 17, and 19) will be devoted to a student performance of Gounod's opera *Romeo et Juliette*. Tickets cost $5 to $11 ($25 and $50 for a benefit performance by Itzhak Perlman and Jerome Lowenthal on August 18). Lobero Theatre, 33 E. Canon Perdido, Santa Barbara 93101; (805) 963-0761.

Paul Masson Summer Series, June 6 to September 27. Although wine is served at intermission, over the years the emphasis at the Paul Masson Mountain Winery has switched to music: classical, jazz, and blue On weekend afternoons (and some evenings), the natural amphitheater nestle above Saratoga stars such headliners as th Romero Brothers, Chet Atkins, Dave Brubeck, Joan Baez, Ramsey Lewis, and George Shearing. Tickets range from $7 t $12.50. Box 97, Saratoga 95070; (408) 725-4275. The season also includes a three-play Shakespeare festival from July 17 to August 9; call (408) 867-2395.

San Luis Obispo Mozart Festival, August 3 to 9. Orchestral, chamber, and recital performances fill a week-long program th includes works by Bach and Brahms, Haydn and Ravel, as well as Mozart. Missions San Miguel (35 miles north of town) and San Luis Obispo Tolosa will ho special concerts; others will be held at the 500-seat Cal Poly theater. Free instrumen workshops, lectures, and a new program of Hearst Castle tours incorporating chamber music fill out this year's schedul Concert tickets are $6 to $20. Box 311, San Luis Obispo 93406; (805) 543-4580.

Colorado

Aspen Music Festival, June 26 to August 23. Come summer, music replaces skiing a the big draw at this resort town 8,000 feet high in the Rockies. Music director Jorge Mester will be principal conductor during the 32nd season of concerts: chamber symphonies on Fridays at 6, solos and chamber ensembles on Saturdays at 4 and Mondays at 6, the Aspen Festival

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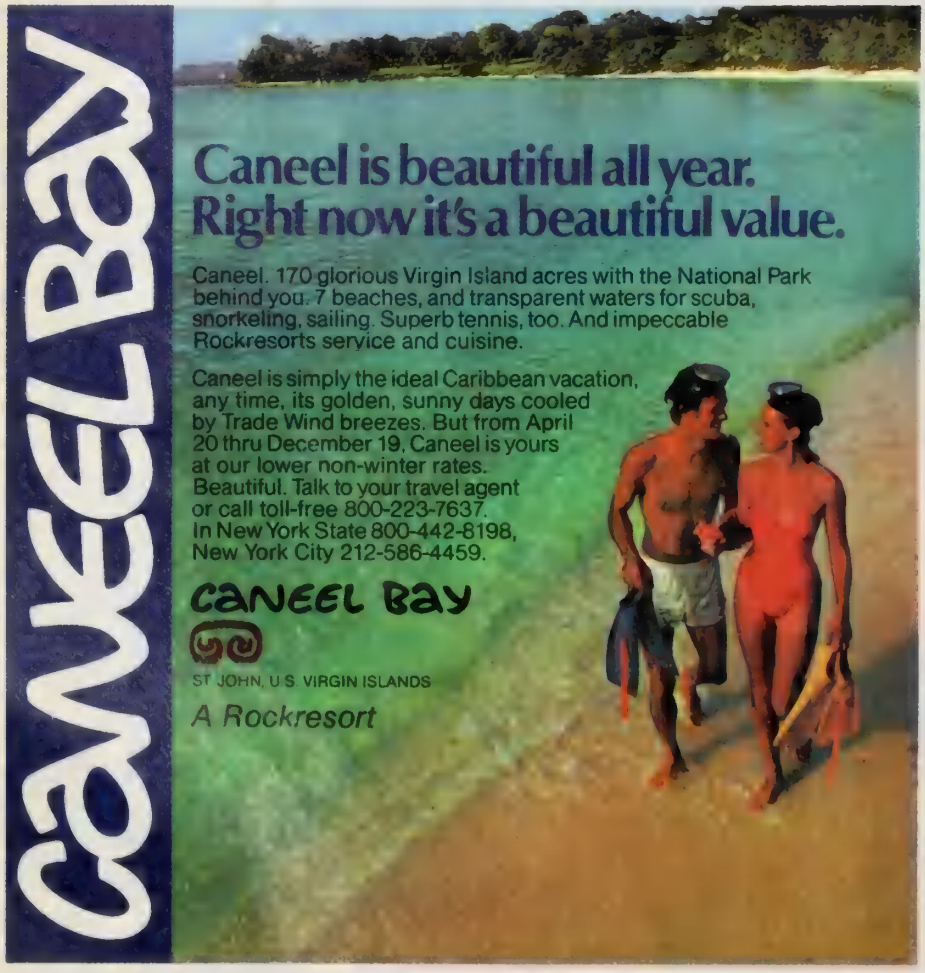

Orchestra on Sundays at 4, and student concerts on Wednesdays at 4. Altogether, more than 100 events pack the schedule; most are held in a canopied amphitheater just outside town. This year's guest talent includes Misha Dichter, Zara Nelsova, Jan DeGaetani, and Shlomo Mintz. Seats are $4 to $14. 1860 Broadway, New York 10023; (212) 581-2196. After June 1: Box AA, Aspen 81612; (303) 925-3254.

Central City Opera Festival, July 11 to August 16. Perched on a steep, rocky slope 40 miles west of Denver, Central City has lost none of its Old West spirit as a 19th-century mining town. Riches from Colorado gold strikes funded the 1878 opera house, still distinguished by thick stone walls, good sight lines, superior acoustics, and decidedly casual seating for 800 people on wooden kitchen chairs. This year, the festival will present three major operas in English: the 25th-anniversary production of *The Ballad of Baby Doe* (16 performances), a tale from Colorado's past; Puccini's *Madame Butterfly* (12 performances); and *Fables* (6 performances), a two-act work by Hugh Aitken based on Aesop's fables. Tickets are $11.50 to $25. 1615 California St., Suite 510, Denver 80202; (303) 623-7167.

Colorado Music Festival, June 19 to July 24. Although it's just entering its fifth season, this festival attracts top talent—Misha Dichter, Shlomo Mintz, Leonard Rose, and musicians from symphony orchestras all over the country. The full festival orchestra gives Friday concerts at 8:30 P.M., a chamber orchestra performs at 7:30 on Sundays, and ensembles play at 8:30 on Tuesdays. "Between the World Wars," a week-long symposium, will feature works by Copland, Gershwin, Stravinsky, and other composers of the period. Overlooking the city of Boulder, the old-fashioned 1895 auditorium in Chautauqua Park provides surprisingly good acoustics. Seats range from $4 to $11. 1245 Pearl St., Boulder 80302; (303) 449-1397.

New Mexico

Santa Fe Chamber Music Festival, July 12 through August 17. In 1979, its seventh season, this festival earned a national reputation when it traveled to New York and Seattle. This year, it will hold its regular season of concerts and recitals at the College of Santa Fe, St. John College, and the historic Santuario de Guadalupe in Santa Fe, then travel to the University of Washington campus in Seattle (August 19 to 24) and Lincoln Center in New York (August 29 to September 3). Lincoln Center concerts will be broadcast live across the country. Soloists such as Ani and Ida Kavafian, Edward Auer, Heiichiro Ohyama, and Walter Trampler will perform a repertoire that ranges from classical to modern, familiar to rarely heard. Santa Fe seats are $5 to $10. Box 853, Santa Fe 87501; (505) 983-2075.

The Santa Fe Opera. July 3 to August 29. Celebrating its 25th anniversary, The Santa Fe Opera will open and close its season with *La Bohème* in Italian. *Il Barbiere di Siviglia* in Italian, Richard Strauss's *Daphne* in German, and Stravinsky's *The Rake's Progress* and Hindemith's *News of the Day* in English fill out the 1981 schedule, totaling 34 performances. The striking adobe and redwood pavilion, where many of the 1,765 seats are sheltered under a roof, makes the most of its setting in the

(Continued on page 52)

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foothills of the Sangre de Cristo Mountains. Seats cost $9 to $32, standing room $3. Box 2408, Santa Fe 87501; (505) 982-3855.

Oregon

Peter Britt Music Festival, August 7 to 22. Peter Britt planted his gardens in the 1850s, when Jacksonville was a rough-hewn mining town. Now his wooded hillside with its new pavilion provides natural acoustics for music of classical and modern masters—from Mozart to Copland—in daily programs of symphonies, chorales, or concertos. For evening performances and two daytime family concerts (August 15 and 22), listeners set out blankets or folding chairs on the grassy slope. Guest recitals are given in a 200-seat restored ballroom at the United States Hotel. Admission to evening concerts and recitals is $6.50 ($4 for students and seniors); family concerts cost $2 for adults (50 cents for children). Box 1124, Medford 97501; (503) 773-6077.

Washington

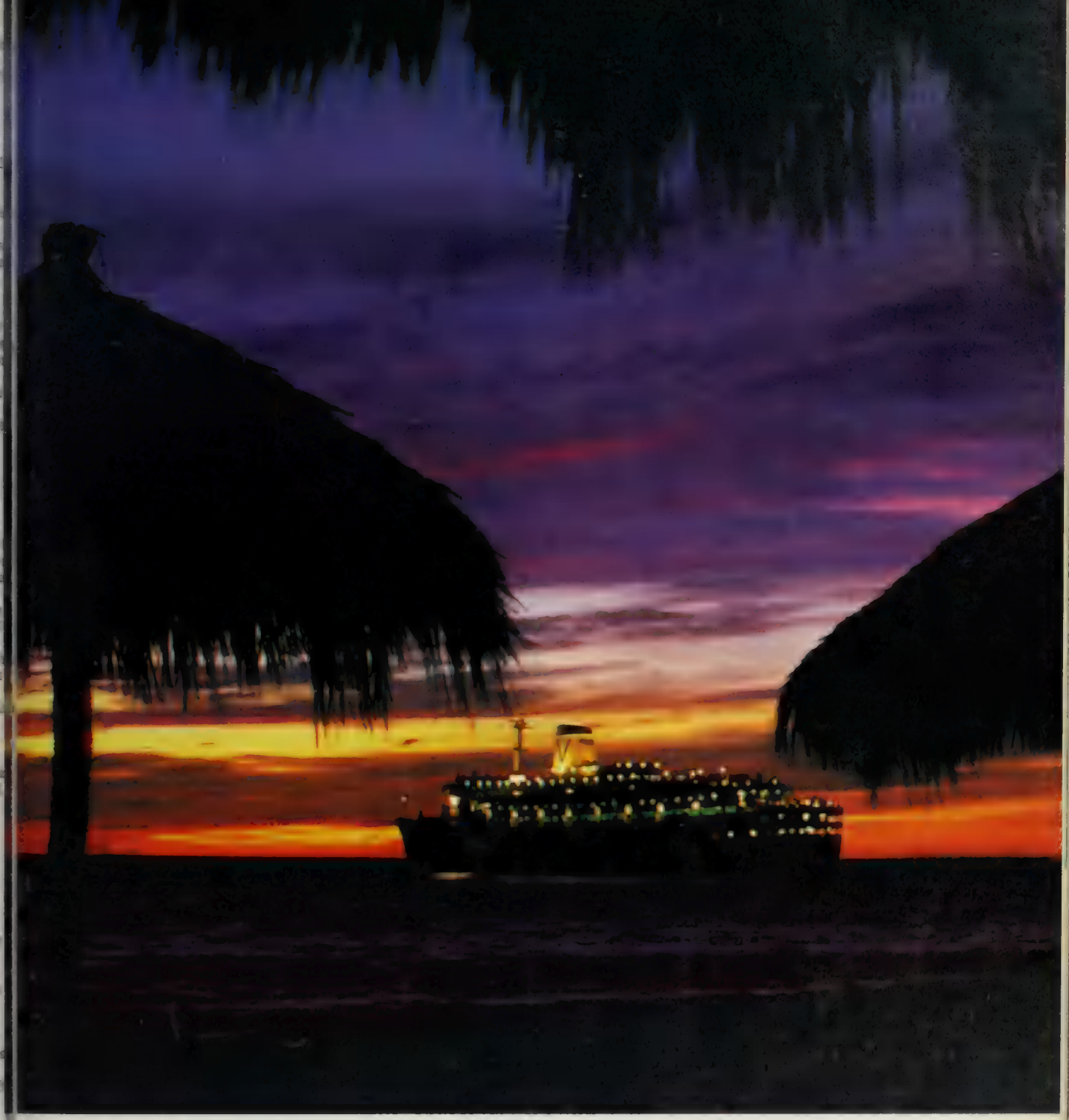
Pacific Northwest Wagner Festival, July 18 to August 2. The 1981 program expands to include Wagner's opera *Tristan und Isolde* in German on July 26, as well as the traditional four-opera cycles of *Der Ring des Nibelungen* in German (July 18 to 23) and English (July 28 to August 2). Last year's orchestra expansion has enriched the sonority and pit remodeling has improved the acoustics in the 3,017-seat Seattle Opera House. Casting changes for The Ring include Pentti Perksalo as the German Siegfried and Elliot Palay as his English counterpart. Tickets for each Ring cycle range from $54 to $220; *Tristan und Isolde* costs $20 to $75. Seattle Opera, Box 9248, Seattle 98109; (206) 447-3503.

Wyoming

Grand Teton Music Festival, July 15 to August 22. Ling Tung, conductor of Hong Kong's philharmonic, directs the festival's 100 resident artists in six weekly concerts: chamber music and recitals Monday through Friday, full-orchestra concerts on Saturday. A weekly program called "Music in the Present Tense" will focus on 20th-century works. All performances are at 8:30 in the 900-seat Festival Hall at Teton Village. Tickets cost $3.50 to $6 for chamber music events, $4.95 to $10 for symphony concerts ($2.50 to $3.50 for students). Box 310, Teton Village 83025; (307) 733-3050.

Alberta

The Banff Festival of the Arts, May 15 to August 25 (art exhibitions start May 3). As many as 150 events will fill the three-month program of concerts, recitals, opera, art exhibitions, drama, readings, dance, and musical theater. All take place at the Banff Centre, a hillside campus in the Canadian Rockies a short walk from downtown. Highlights of the 1981 program include solo and ensemble music by faculty and students, performances by the Canadian Chamber Orchestra, Britten's comic opera *Albert Herring*, and a series of works by Bartok in honor of his centenary. Many events are free; others range from $4 to $8. Box 1020, Banff, Alberta, Canada; (403) 762-4222 or 762-6300. □



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The Renaissance in Modesto

ither **Michelangelo** nor any of the dicis ever came within 5,000 miles its city limits, but Modesto has a naissance festival. Better known for mmoth wineries than for wildlife, Mo- to also has a new natural history useum. In brief, Modesto has two rea- s—both linked to its junior college or the May traveler to dawdle.

ll small and newly settled into its lding, The Great Valley Museum of tural History contains displays that w the valley's plants and animals as y were before mass settlement. It also nsors field trips; for information on se, call the museum: (209) 526-2000 . 313, or write Box 4014, Modesto 352.

e museum is open Tuesday through day from noon to 4:30 P.M. and on second Sunday of each month from n to 4. It sits at the corner of Stod- d and College avenues in Modesto. m State Highway 99, take Kansas enue east and turn left on Ninth eet. Go right on Tully Road, then ht on Stoddard to College.

avelers passing through Modesto on weekend of May 2 and 3 can dawdle at the Ninth Annual Spring Renaissance Festival, held at Modesto Junior College's west campus. Smaller than the extravaganzas in Agoura and Novato, Modesto's Faire nonetheless has artisans and food enough to entertain and refresh a car-sore family.

The fair runs from 10 to 5 both days. To reach it from State 99, take Kansas Avenue west, then turn right on Carpenter Road. □

FORREST JACKSON

Limber juggler *high-kicks for crowd at Modesto's Renaissance festival*

DAVID STUBBS

Pygmy owl *and Steller's jay draw close look from Great Valley Museum visitors*

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Sun-splashed rocks *and clear sweet water: Manzana Creek obliges visitors with a series of natural pools*

BILL R

Shaggy grasses *and supple laurels arch over stream in Santa Lucia Wilderness*

Accessible wilderness welcomes you . . . the southerly Coast Range

The Coast Range, that braid of mountains which beguiled Robinson Jeffers and John Steinbeck and William Randolph Hearst, begins in redwoods near the Oregon border and ends, garlanded with wild mustard and oaks, near the San Luis Obispo - Santa Barbara county line. Here the braid has loosened into two separate but similar strands, the southern Santa Lucia Mountains and the San Rafaels.

Not much of historical note happened in these sets of peaks. They were too rough and removed to draw sustained interest from Spanish padres or dons, and too sparsely sprinkled with minerals to be worked by many American miners. As for ranching—well, as one turn-of-the-century Santa Barbara writer put it, "Cattle and horses kept in this upper region speedily assume the Gothic architecture of the hills from which they seek their sustenance."

In this case, time has turned drawbacks into delights. The passed-over mountains now contain two wilderness areas, more accessible than many. Especially in a flowered and waterfalled spring, they are fine places to walk for a day or backpack for three or four.

San Rafael Wilderness Area: familiar at first; wild, pretty and sage-scented later on

You reach the San Rafael Wilderness, older and larger (140,000 acres) of the areas, by cutting inland on State Highway 154 between Santa Barbara and U.S. 101. From the south, turn right on Armour Ranch Road (4½ miles after the turnoff to Lake Cachuma), head north for 2½ miles, and turn right on Happy Canyon Road, continuing for 13 miles. From the north, turn left on Figueroa Mountain Road in Los Olivos and drive northeast for 19 miles. The two roads meet to form Sunset Valley Road, which leads you 5 miles to the wilderness border.

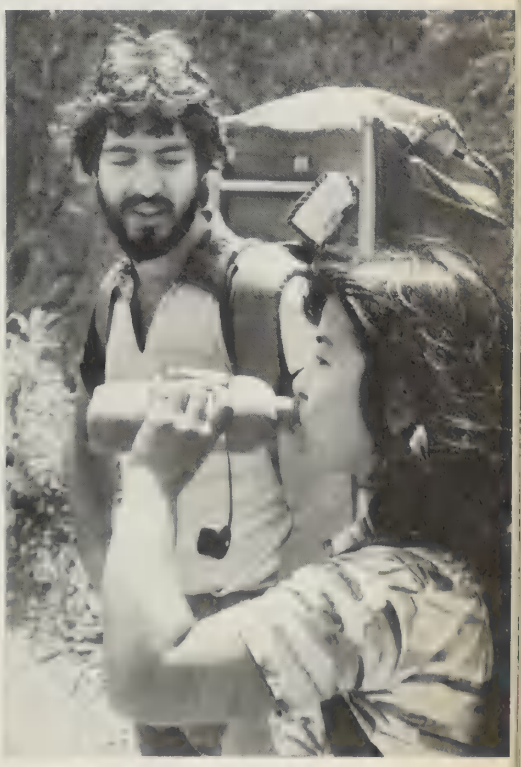
At a distance, the San Rafael Wilderne proves the truth of its early, Gothic de scription. Canyoned by two streams— Manzana Creek and the Sisquoc River— with high peaks surrounding them, th wilderness rises above the moneyed pas tures of the Santa Ynez Valley like a austere medieval keep.

Strangely, much of this drama dissipate when you arrive at the main gateway t the wilderness, Nira Campground. Nir can be crowded, especially on spri weekends (concern about overuse i growing, and a new draft managemen plan discusses the possibility of closin the road below Nira). And the terrain i occupies is almost too familiar to Cali fornians: we've seen such oak meadow and chaparralled slopes nudged aside b a hundred growing suburbs.

As a result, first-time visitors may fea

Soft, grassy meadows *and wide-reaching oaks grace San Rafael Wilderness. This is on the Manzana Creek Trail*

Rest stop. *Sometimes the going is steep enough—and the air dry enough—to force frequent canteen breaks*



they'll turn the trail to bump into a shopping center or on-ramp. You have to hike awhile, listening to the creek ripple past the cottonwoods and letting the smell of sage tickle your nose, before you realize how wild and pretty the land really is.

From Nira, you can follow trail 30W13—the Manzana Creek Trail—downstream along Manzana Creek to campsites at Potrero (1½ miles), Coldwater (3 miles), and Manzana Schoolhouse (8½ miles); or upstream to Fish Creek (3 miles), Manzana (6 miles), or Manzana Narrows (7 miles). Either way the trail alternates between the valley floor, where it sometimes loses itself in reeds and stream crossings, and the sloping hillsides, where switchbacks make you puff enough to welcome a dip in a sandstone pool when you descend again to the creek.

Manzana Creek is by far the most visited portion of the wilderness. Backpackers more ambitious and more desirous of solitude should probably press on.

From Manzana Schoolhouse, they can follow the Sisquoc River 30 miles upstream along trails 30W12 and 27W07, passing 13 campgrounds and the Sisquoc Condor Sanctuary (entry forbid-

BILL ROSS

Manzana minuet: *May water levels should make stream crossings tricky but not impossible*

den). From Manzana Narrows, they can climb northeast to connect with trail 27W07, passing three campgrounds and skirting Hurricane Deck, a blasted sandstone spine that is as eerie and beautiful a collection of rock as one is likely to see. (A trail—30W14—runs the length of the Deck, but lacks water and campgrounds. You can also reach the Deck by following trail 29W12, which climbs north from Manzana Creek Trail at Potrero, or 29W14, which intersects Manzana Creek Trail about 1 mile east of Nira.)

Another alternative is to enter the wilderness from the south via the Santa Cruz Canyon Trail (27W09). (Reach it by taking State 154 4 miles northwest of San Marcos Pass, then turning north on Paradise Road and driving 5 miles to Upper Oso Campground, the trailhead.) This will add a day to your trip, as it is 12 steep though pretty miles until you even enter the wilderness, but you'll find two campgrounds along the way if you tire.

Campers who want to sample the perimeter of the wilderness will find more developed campgrounds at Davy Brown (on Sunset Valley Road 1½ miles below Nira), Cachuma (on Happy Canyon Road 6 miles below Davy Brown), and Figueroa (on Figueroa Mountain Road, 7 miles east of its junction with Happy Canyon).

Santa Lucia Wilderness Area: lush up-and-down-acreage, falls that would have pleased Gauguin

The Santa Lucia Wilderness Area lies about 40 miles northwest of the San Rafael. It is but one-seventh the size of its neighbor, has but two campgrounds, and the longest of its five trails is a puny 4.5 miles. All of these facts merely point up the limitations of statistics, for the Santa Lucia's lush up-and-down acreage is among the prettiest in California.

Most people make their acquaintance with the area by taking Lopez Drive at its intersection with U.S. 101 in Arroyo Grande and driving 20 curving miles northeast past Lopez Lake (where comfort-seeking campers will find 360 tent/RV sites at $4.50 and $6 per night) into Lopez Canyon. In theory, you can drive 4 or so miles into the canyon; in practice, the road becomes so rock-ridden that motorists without four-wheel-drive soon fear for their oil pans and stop at the first trailhead, Little Falls, or the second one, Big Falls.

Both trails to both falls stretch 3 relaxed miles from the road and offer improbably verdant scenery at their ends. Visit either on a weekday (weekends tend to be chock-full of students and six-packs) and you'll imagine yourself Gauguin at ease in a green mossy paradise.

Overnight campers will have to return from the falls and hike north along the Lopez Canyon Trail (13E03). Trellised by oaks and lined with lupine and thick banks of ferns, it leads you to two wilderness campgrounds, Sulphur Pot (1 mile from the trailhead—more if you parked at Little or Big Falls trailhead) and Upper Lopez (3 miles), then rises to 2,700 foot-high Black Butte. From here you'll be treated to an imperially broad view of mountains, valley, ocean, and sky.

Another alternative is to drive around to the northeast side of the wilderness. Take State 58 east to Santa Margarita, then Rinconada las Pilitas and San Jose-Santa Margarita roads southeast 22 miles to the hamlet of Pozo; then follow a rutted, somewhat difficult dirt road 6 miles up to Hi Mountain Camp. This pretty campground is not in the wilderness but is near enough to serve as a base for hikes; from here you can drive 1½ miles to Hi Mountain trailhead and connect with trails to Little and Big Falls.

Cautions and quadrant maps

The warnings applied to most parts of outdoor California apply to the San Rafael and Santa Lucia wilderness area well. Watch for poison oak and ra snakes. Water, especially this tim year, should be flowing fast enough potable, but cautious campers may to boil or treat it anyway. Wilder campsites have no sanitary facil Fires are permitted in existing s only; about half of the San Rafael derness is subject to closure during season, which usually begins July 1.

You'll need a permit to enter either derness. Permits can be obtained a Santa Maria Ranger Station, Los Pa National Forest, 1616 N. Carlotti Santa Maria 93454; (805) 925-9538 Los Prietos Ranger Station, Star R Santa Barbara 93105; (805) 967-3 or at the Los Padres National F Headquarters, 42 Aero Camino, G 93017; (805) 968-1578.

At these offices, you can also obta map of Los Padres National Forest tailed enough to be reasonably usefu both areas. More detailed maps are lished by the USGS. The Santa L Wilderness is covered by the L Mountain, Santa Margarita Lake, Tar Spring Ridge quadrangles. The Rafael is covered by Little Pine M tain, Big Pine Mountain, San Ma Pass, San Rafael Mountain, Bald M tain, Hurricane Deck, Zaca Lake, Figueroa Mountain maps.

Sleek white streak *of Little Falls and a chilly swim are rewards at end of 3-mile Santa Lucia hike*

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JOSEPHINE COATSWOR

Sentinel of a treacherous strait, *108-year-old Victorian lighthouse is now a bed-and-breakfast i*

To East Brother...for a picnic, a visit, or overnight

Richmond bridge *forms a backdrop for picnickers (above); inside, guest rooms are furnished with antiques*

Cradled in the crook of San Francisco Bay where it meets San Pablo Bay is a snug little island, East Brother, topped by a lighthouse. Of the 17 lighthouses that once graced the Bay, this one—a two-story carpenter Gothic built in 1873—was perhaps the prettiest. But until recent restoration, it had slipped into disrepair. Now it's fixed up and open for day trips and a limited number of overnight visits.

Just northwest of Richmond, East Brother is still a working lighthouse. It guards San Pablo Strait, where small groups of islands—the Sisters, the Brothers, and Marin Islands—threaten ships that stray from the narrow channel.

East Brother is a tiny but pleasant place, fairly wind-sheltered, surprisingly sunny. A shuttle boat takes you there from Point San Pablo Marina, and you can wander about the 1-acre grounds and bird-watch, picnic, or fish from the rocky shores (a fishing license is required). You'll get a unique perspective on the north Bay and to the Richmond - Sa Rafael Bridge and the San Francisc skyline to the south.

But perhaps the best way to get to kno this cozy isle is to stay overnight. Th nonprofit group that restored the buil ing now operates it as a bed-and-brea fast inn; there are two guest rooms, ea decorated in antiques. Price is $125 p couple per night, open Thursday throug Sunday only. Dinner and breakfast a provided, and the boat shuttle is i cluded. Reservations are required; wri to East Brother Light Station, 117 Pa Place, Point Richmond, Calif. 94801.

Day visitors can arrange for a shuttle o to the island by calling (415) 233-238 cost is $10 (round trip) per person, $ each for six or more. Confirmed reserv tions are necessary; you will be give directions.

On May 2, the island hosts a Valle Race Day Party with lunch and tour cost is $25; call the number listed abov for tickets.

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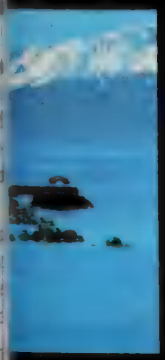

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Ancient cypress *and earth-toned building wind down Asolo hill toward the vineyard*

On the Villa Cipriani *terrace, visitors enjoy hillside view and local wine*

Romantic detour from Venice

The small town of Asolo curves gent around a hill in northern Italy's wi country. A 40-mile drive northwest Venice, Asolo offers quiet contrast. I a romantic spot, a place to slow dow for a few hours to enjoy the small pia zas and views of rolling vineyards.

Five centuries ago, Caterina Cornaro the queen of Cyprus—was sent into p litical exile here. Although she held cou from her hillside palace for only years, the impression she made has be a lasting one. The town has remain elegantly gracious and hospitable—esp cially attractive to artists. Favored Robert and Elizabeth Barrett Brownin in the 1800s, it later became the home Eleonora Duse, the great actress.

Park near the central piazza and stroll the Duse Museum, open daily on a casu basis; here you'll see theater memorabil from the actress' life. In the afternoo you can look in on the weaving studio block below the piazza where ancie handlooms are used to produce fabri inspired by the great Venetian painter Wrought iron and ceramics are oth local specialties.

If you want exercise, climb the mar steps to the fortress ruins that top th hill. In the opposite direction, walk few blocks to the Villa Cipriani. On owned by Queen Caterina and later Ro ert Browning, it is now a distinguishe hotel with an excellent menu.

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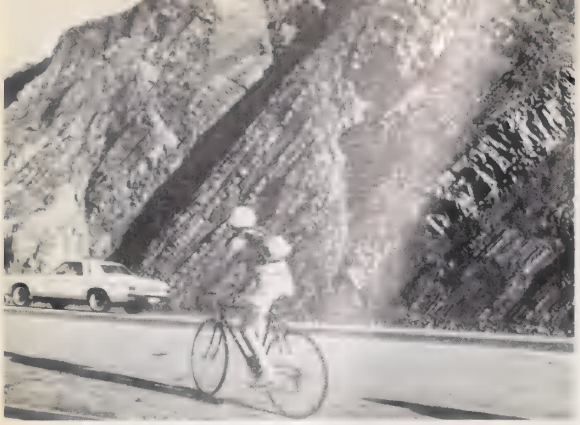

JERRY FREDRICK

Tilted rock strata *(above) are in easy view on California Highway 1 just south of Pacifica. Roadside guidebook (right) led to coastal overlook where mountain tails into sea*

Take some geology along in the car

Western geology is dynamic—our landscape is moving, changing, often imperceptibly, sometimes violently. Eruptions of Mount St. Helens and recent earthquakes are tumultuous reminders of the forces that continue to shape the West. Most of our landscape is more quiescent, and much of it can be viewed from highways that cross an amazing variety of landforms.

We've compiled a reading list that can enrich your geologic appreciation as you motor in the West. If you'd like to learn where to look for the scarp of the San Andreas fault (it cuts near—and under—some California freeways), or what rocks make up the scenery at Pikes Peak (it's formed of pink Pikes Peak granite), these guidebooks furnish roadside aid.

Most have maps to help you plan your route; all have photographs to steer your eyes. Each is written for interested lymen, offering help with the sometimes unfamiliar language of geology: batholith and laccolith, siliceous sinter and stratovolcano. Some of these references are available from bookstores, others directly from the publishers or government agencies listed.

We've omitted specialized guides for geologically significant national parks and monuments; these are often available on site. More technical material can be obtained from the U.S. Geological Survey, universities, and state-level bureaus or departments that deal with geology or mineral resources.

A serious geology buff might want to keep a geological highway map in the glove compartment. Colorful fold-out maps published by the American Association of Petroleum Geologists for the Western regions cost $4 each. For an order form, write to the A.A.P.G., Box 979, Tulsa, Okla. 74101.

PACIFIC WEST

California

California's Changing Landscapes, by Gordon B. Oakeshott (McGraw-Hill, San Francisco, 1978; $16.95).
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HOTEL INTER•CONTINENTAL
MAUI On the beach at Wailea
Maui, Hawaii

claims author Oakeshott. This textbook is written for serious laymen and college-level geology students; it's well illustrated by black-and-white photographs, some maps.

Earthquake Country, by Robert Iacopi (Lane Publishing, Menlo Park, Calif., 1971; $5.95). This *Sunset* book explains how, why, and where earthquakes strike in California. Numerous maps and photographs can guide you on a fault-finding tour.

Geology of the Sierra Nevada, by Mary Hill (U.C. Press, Berkeley, 1975; $5.95). The Sierra story is "a tale of steaming volcanoes and chilling glacial ice; of quiet, warm shallow seas and sudden earthquakes." This field guide indicates roads that lead to geological viewing points.

Geology Field Guide to Southern California, by Robert P. Sharp (Kendall/Hunt Publishing, 2460 Kerper Blvd., Dubuque, Iowa 52001, 1976; $7.95). Author Sharp has news for Angelenos and San Franciscans: "Since Los Angeles is west of the [San Andreas] fault and San Francisco is mostly east of it, these two cities get a little closer together each time the fault slips." This engagingly written book has 120 pages of mapped trip guides. The publisher's geology field guide series includes titles for other Western regions.

Roadside Geology of Northern California, by David D. Alt and Donald W. Hyndman (Mountain Press Publishing, Box 2399, Missoula, Mont. 59806, 1975; $7.95). One of a well-done series of guidebooks featuring road logs keyed to maps; illustrated with black-and-white photographs and cross-section drawings. This guide includes the Great Valley, California's Cascades, and the Modoc Plateau; among the logged routes are sections of California highways 1 and 89, Interstate 5, and U.S. 101 from San Francisco to Oregon.

Roadside Geology of U.S. Interstate 80 Between Salt Lake City and San Francisco (American Geological Institute, 1975; $3). This magazine-size guide has text and photographs keyed to color maps that take you more than 600 miles across the West, from the Golden Gate ("formed when the sea invaded the subsiding Sacramento River") to the Oquirrh Mountains south of Great Salt Lake. Write to the A.G.I., 5205 Leesburg Pike, Falls Church, Va. 22041.

Hawaii

Road Guide to Points of Interest in the Hawaiian Islands, by Harold T. Stearns (Pacific Books, Palo Alto, Calif., 1978; $3.95). Diamond Head (a basaltic tuff cone) was named by "British sailors who mistook the calcite crystals found there for diamonds." A good overall guide to the Islands, though one could wish for clearer maps and more photographs.

Northwest (including Cascades)

Cascadia: The Geologic Evolution of the Pacific Northwest, by Bates McKee (McGraw-Hill Book Co., San Francisco, 1972; $19). This book offers the serious layman clearly written text, maps and black-and-white photographs, and 35 pages of trip guides covering parts of Idaho, Oregon, Washington, and British Columbia.

The Channeled Scablands of Eastern Washington (U.S. Government Printing Office, Washington, D.C., 1976; 70 cents). "Scablands" describes some 15,000 square miles of eastern Washington. How were they formed? In the Great Ice Age, 18,000 to 20,000 years ago, an ice dam broke, unleashing a "lake that drained at a rate unmatched by any flood known"—the Spokane Flood. Color photographs and

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maps show you the results. Order this booklet (number 024-001-02507-8) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; minimum order $1.

Fire and Ice: The Cascade Volcanoes, by Stephen L. Harris (The Mountaineers, Seattle, 1980; $7.95). Though recent blasts of Mount St. Helens aren't included, the author aptly notes: "During the last few thousand years, St. Helens has been more active and more violent than any other volcano in the conterminous United States." The Cascade chain from Lassen Peak in California to Mount Garibaldi in British Columbia is discussed; there are many photographs and drawings, but a dearth of maps.

The Magnificent Gateway: Geology of the Columbia River Gorge, by John Eliot Allen (Timber Press, Box 92, Forest Grove, Ore. 97116, 1979; $8.50). Here's a mile-by-mile road guide to this "geologic cross-section" through the Cascades. (See *Sunset's* report on the gorge in the April 1981 issue.)

Roadside Geology of Oregon, by David D. Alt and Donald W. Hyndman (Mountain Press Publishing, Missoula, Mont., 1978; $7.95). "The geology of Oregon, indeed the very existence of Oregon, is the product of a prolonged collision between the North American continent and the Pacific Ocean floor." Interstate 5 and U.S. 101 are among the routes logged.

INTERMOUNTAIN WEST

The Great Salt Lake (U.S. Government Printing Office, 1979). In this colorfully illustrated booklet, you see how the whole state of Rhode Island could fit in the Great Salt Lake. For a free copy, write to the Branch of Distribution, USGS, 604 S. Pickett St., Alexandria, Va. 22304.

ROCKY MOUNTAIN WEST

Colorado

Roadside Geology of Colorado, by Halka Chronic (Mountain Press Publishing, Missoula, Mont., 1980; $7.95). This guide adds a geologic dimension to travel along Interstate 25 and 70 (and scores of other logged highways).

Mountains and Plains: Denver's Geologic Setting (U.S. Government Printing Office, 1980). "The Denver area began less than 2 billion years ago," according to this pamphlet that includes a road log keyed to a map. For a free copy, write to the Branch of Distribution, USGS, 604 S. Pickett St., Alexandria, Va. 22304.

Northern Rockies

Roadside Geology of the Northern Rockies, by David D. Alt and Donald W. Hyndman (Mountain Press Publishing, Missoula, Mont., 1972; $7.95). This book covers geologically provocative routes in portions of Idaho, Montana, and northwestern Wyoming.

SOUTHWEST

Arizona

For a list of geologic guidebooks and road logs covering Arizona (50 cents to $1.25), write to the Bureau of Geology and Mineral Technology, Publications Office, 845 N. Park Ave., Tucson 85719.

New Mexico

A brochure order form titled "Scenic Trip to the Geologic Past" lists 12 guidebooks published by the New Mexico Bureau of Mines and Mineral Resources ($1.50 to $3.50). Write to the Bureau, Publications Room, Socorro, N. Mex. 87801.

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Into Australia's "outback"

Australia's gateway cities of Sydney an Melbourne and their pleasant green su roundings offer a benign view of th huge country. But "out back" of th Great Dividing Range, magnificent an varied desert scenery unfolds, dominate by sun, wind, and drought—a vast hear land that remained largely unexplore until the mid-1800s.

These days, several outfitters lead grou camping safaris into the outback, pr viding a unique chance for you to lea city life behind and discover Australia rugged interior.

The trips usually last several weeks, b some let you join or leave part wa May through October—Australia's wi ter—brings the outback's best weathe although nights can get close to freezin days are usually warm and sunny, wit out the extreme heat of summer.

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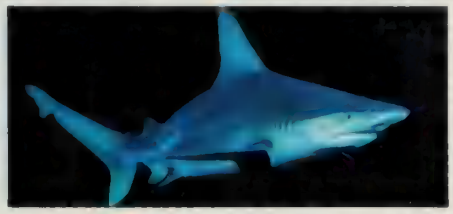

The world-famous San Diego Zoo is filled with wildlife of every size, shape, color and description. Ride the Skyfari tram for a bird's-eye view, then learn all about the animals on a fascinating guided bus tour. There's even a Children's Zoo for kids and grown-ups, too.

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We want to extend special thanks to the Mexican National Tourist Council, who helped us obtain permission to photograph the murals pictured in this campaign.

WESTIN HOTELS

the group (8 to 30 people) helps with daily chores.

The day begins early, when the cook awakens you for breakfast. After breaking camp, the drive begins: depending on the trip schedule, you may be on the road a few hours or all day. You can spend the time reading, writing, or getting to know the international mix of people in your group. There are frequent stops at isolated roadhouses for snacks or shopping.

Lunch, perhaps under shady trees by a stream, usually consists of cold cuts, sandwiches, and salads. Often there will be time for short hikes or a swim.

Late in the afternoon, you'll make camp, gather firewood, and start the billy (camp kettle) boiling. You'll learn to make billy tea, stirred with a green gum twig. Then with cheese, crackers, and wine at hand, it's time to relax around the campfire before tea (dinner).

After cleanup, the group might tell stories, sing camp songs, or listen to Australian poetry. If weather is warm, sleeping under the stars will give you a good look at constellations in the Southern sky.

Along the way: emus, anthills, and an underground town

Outings vary, but most tours begin in Sydney or Melbourne and go north, where eucalyptus forests change to scrub. This is kangaroo country. Ostrich-like emus may sleep by your tent or be ready for a handout at dinner time. You'll drive through dry, featureless gray plains, past sandy ridges and fields of 10-foot-tall anthills, to tour the mining center at Mount Isa.

Near Darwin, the land turns more tropical. Here you'll see colorful birds and flowers, take a boat through Katherine Gorge, swim at Mataranka Hot Springs and in palm-fringed pools, go to Aborigine stations, and see rock paintings.

The center of the country near Alice Springs is red: red rock, red roads, and red dust. Here you can climb Ayers Rock and hike the beautiful gorges of the dome-shaped Olgas. Traveling south toward Adelaide, you'll pass through desert areas dotted with thorny grass and dried salt lakes. You might visit the opal-mining center of Coober Pedy, where much of the town is built underground.

Other itineraries could take you through the Flinders Ranges north of Adelaide to Alice Springs, or to the northeast or northwest coasts.

Costs for outback safaris average $30 to $45 a day, including most meals and equipment. For brochures on outfitters, write to the Australian Tourist Commission Distribution Center, Box A1, Addison, Ill. 60101. Its branch office at 3550 Wilshire Blvd., Los Angeles 90010, can answer further questions. □

DOUG MONA

It's in the net: *he landed feisty cutthroat trout on guided fly-fishing float along Snake River. Grand Tetons are scenic bonus*

Best trout fishing in U.S.? Yellowstone country is contende

"From the center of Yellowstone Park, draw a circle with a hundred-mile radius," advises 45-year veteran fly fisherman Dan Bailey of Montana. "You've just covered about the best trout fishing in the continental United States."

Few well-traveled anglers would disagree. For nearly a century, Yellowstone country (which includes parts of Idaho, Montana, and Wyoming) has been a mecca for fishermen. Rivers like Henry's Fork and the Madison are passwords in the fly-fishing fraternity, calling up memories of clear streams and fighting trout.

Does the region still live up to its storied reputation? To find out, we spent several days fishing here last season, at times enjoying tremendous angling. We hooked and released a few score rainbows on Henry's Fork, but almost got skunked on the lower Yellowstone River only two days later—proof that you can't take fishing success here for granted.

We fished on our own and with guides, trolled from canoes on big lakes and cast flies from river driftboats. We sampled some 15 rivers, lakes, and ponds; angled beside major highways, on guest ranches, and in remote back country.

We learned that a few simple steps can increase your success: rely on local advice, and hire a guide or visit a guest ranch that features angling. Most important, try to time your visit so you fish each stream or lake at peak periods when trout are likely to be feeding most actively. (The chart on page 76 lists the times.) Fly-fishing newcomers might see instruction at schools in the area.

What's the Yellowstone trout secret?

The superior fishing around Yellowsto begins with pure, well-oxygenated, ec logically intact streams. Many are al rich in nutrients (especially calcium) th support big populations of aquatic i sects, which in turn provide abunda food for trout.

Water flow is also vital: slow enough most streams to prevent winter "scou ing" of spawning beds, but still sw enough to ensure aeration. Also impo tant is good fisheries management, whi limits the size and number of trout y

Elk forages *calmly while spin-fishermen cast into Wyoming river*

Trout struck *large spoon trolled from canoe on Yellowstone Lake*

SUNS

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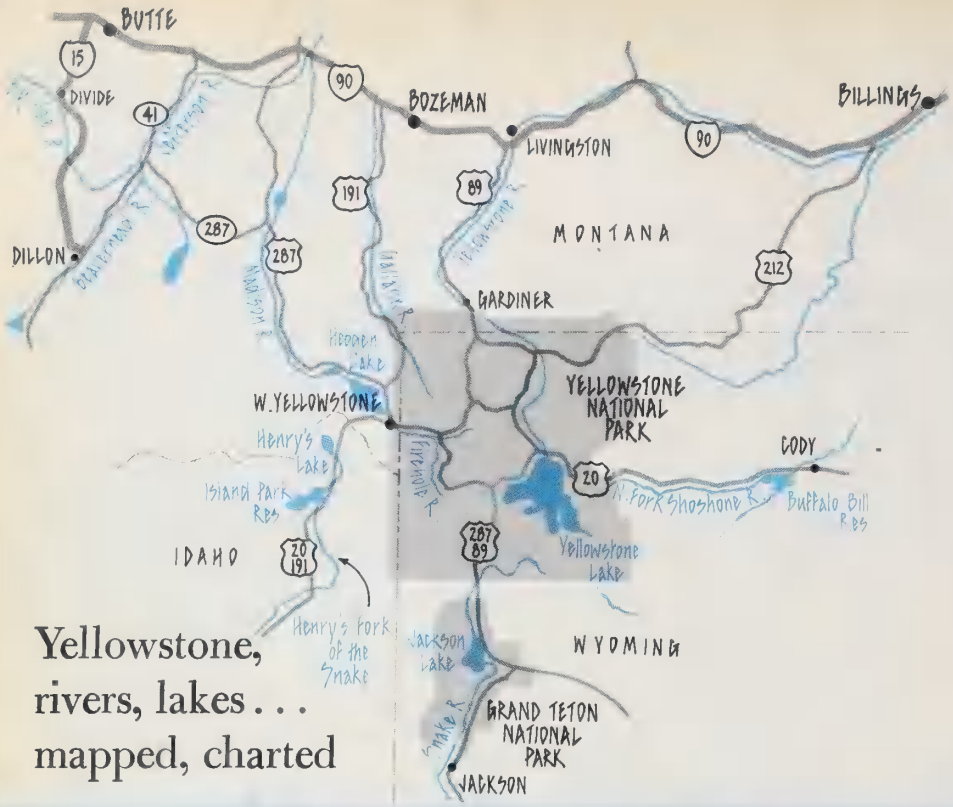

Yellowstone, rivers, lakes . . . mapped, charted

can keep and how you catch them. Wh fishing declined in Yellowstone Park the 1950s, research showed that libe limits had encouraged anglers to wa fish. Tougher regulations put an end that, and fishing rebounded as angl embraced a new ethic: "limit your k don't kill your limit."

When to fish—and where

When aquatic larvae hatch into flying sects, fly fishing picks up. First to hat (generally) are larger insects—ones fi ermen can easily match with dry fli Later, with warm weather, insects u ally become progressively smaller a fishing gets tougher. (Where bait or lu are permitted, you'll often have bet luck with them at these times.)

The biggest and best-known hatch—t salmon fly—comes between late M and early July. Times of other hatch vary, but local fly-fishing shops ch their progress with daily bulletins; st in and check (because of early run anticipated this year, the hatch progr

RIVERS	Estimated key times	Bank access, boating	Tackle regulations	Special limits	Species, avg. size	Services for fishermen	Accommodations, camping
Beaver-head	June 15-July 15, Sept., Oct.	Boat preferred, bank access fair below Clark Canyon Dam	Open	Open	RB 12" Brn 15"	See Big Hole (below)	See Big Hole (below)
Big Hole	June, Sept., Oct.	Boat best in early season. Good bank fishing later near Melrose	ALO: Divide to Melrose	RL: Divide to Melrose	RB 12" Brn 14" Brk 9"	Guides, tackle at Livingston, Bozeman, Dillon, W. Y'stone	Limited accom. in Melrose, Dillon area
Gallatin	July, Sept.	Good bank access above Gallatin Gateway. No boat fishing	ALO: Williams Bridge to Portal Creek	RL	RB 12" Brn 13"	Guides, tackle at W. Yellowstone, Gardiner, Livingston	Camping: Gallatin Cyn. Accom: Canyo Gallatin Gateway
Henry's Fork	June-July 15, Sept.	Best bank access at Harriman State Park	ALO: Island Park Res. to Harriman Pk. FO: Harriman	RL	RB 13"	Guides, tackle at Island Park, W. Yellowstone	Camping bet. Ashton, Island Park Res. Motels: Island P
Madison (outside Y'stone)	June 15-July 15, Sept., Oct.	Best bank access above Ennis. Boating better early in season	FO: Quake Lake to Squaw Creek	C&R certain sections	RB 12" Brn 14"	Guides, tackle at W. Yellowstone, Livingston, Island Pk.	Full services W. Yellowstone, Ennis. Many campgrounds
North Fork Shoshone	June 15-Oct. 1	Excellent bank access in Wapiti Valley	Open	Open	RB, CT, Brn 13"	Guides, tackle at Cody. Guides at some guest ranches	Camping, guest ranches, motels in Wapiti Valley
Snake	Aug., Sept.	Mostly by boat; some bank access near Wilson Bridge	Lures, some bait allowed inside Grand Teton NP	RL in Grand Teton NP	CT 11"	Guides, tackle at Jackson	Full services Jackson; guest ranches; camping Teton NP
Y'stone outside park	June 25-July 15, Sept., Oct.	Bank fishing good late summer, fall. Boating better early in season	Open	Open	RB, Brn, CT 12"	Guides, tackle at Gardiner, Livingston, W. Yellowstone	Full services Gardin Livingston. Some camping near YNP
Rivers inside YNP	June 15-Aug. 15, Sept., Oct.	Bank access throughout Yellowstone NP	ALO most waters, FO many sections	RL or C&R all waters	CT, RB, Brn 10" to 20"	Guides, tackle at W. Yellowstone, Gardiner, Cody	Accom., camping throughout Yellowstone NP
LAKES							
Henry's Lake	June, Sept.	Boat necessary for good fishing	Open	RL	CT, RB, Brk 16"	Guides, tackle at Island Park; boat rentals at lake	Campground, motel, lodge at lake
Hebgen Lake	Mid-May through June, Sept.	Shore fishing often good	Open	Open	RB 12" Brn 14"	Guides, tackle at W. Yellowstone Island Park	Camping, cabins on lake. Full services in W. Yellowstone
Jackson Lake	Late summer	Mainly a boat-trolling lake	Open	Open	CT 12" Mack-inaw	Guides, tackle, boat rentals at Colter Bay	Accom., camping throughout Grand Teton NP
Yellow-stone Lake	June, July	Shore fishing good in all sheltered bays	ALO	RL	CT 13"	Guides, tackle, boat rentals at Bridge Bay Marina	Accom., camping throughout Yellowstone NP

ALO: artificial lures only. Brk: brook trout. Brn: brown trout. C&R: catch and release. CT: cutthroat trout. FO: flies only. NP: National Pa Res.: Reservoir. RB: rainbow trout. RL: restricted limit, usually 1 to 3 fish per day. "Open" means general state regulations apply.

Come to Kauai, Molokai, Maui and The Big Island. Come to the other Hawaii."

"No one should miss the 'mana'—the special magic—of these peaceful Islands. Ask me about 'The Other Hawaii' on your way to Hawaii, in the friendly skies."

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auai.

The Garden Isle. dazzle of bougainvillea, oinsettia, jacaranda and umeria.

Captain Cook made his rst Hawaiian landing at 'aimea. Today it's a colorful antation town. Nearby is ajestic Waimea Canyon.

Iolokai.

An island of tranquillity, from ie emerald green cliffs guarding ie northern shore to the camping paradise of Wailau Valley. There are more native Hawaiians per capita on Molokai than anywhere else on earth. Maybe that's why it's called The Friendly Island.

Maui.

The tropical splendor of Hana, royal resort of Hawaiian kings. Sunrise over awesome Haleakala crater. Lahaina, once the whaling capital of the world, now restored to the look of its 19th-century heyday. The famed beaches of Wailea and Kaanapali. They're just a few of the marvels of Maui.

Hawaii.

The great volcanic peaks, Mauna Loa and Mauna Kea, tower above this island of orchids (over 22,000 varieties!) and black sand beaches. Offshore is deep-sea fishing famous the world over.

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DOUG MCNAIR

Smiles of success: *fly-fishing student and guide display prize caught along Henry's Fork—a hefty rainbow trout*

sion could advance several weeks).

Fishing can really be hot during what one biologist calls "key times." These can last up to a month or so, and vary stream by stream from May to October. For most rivers, the best angling arrives in the first few weeks after high-country snows melt and streams start to drop and clear. Then hatches begin, prompting trout into feeding sprees. Midsummer heat and irrigation draw-downs generally make river-dwelling trout sluggish. But autumn's cooler weather perks them up —it's the favorite time for catching large trout (especially big browns bound for spawning tributaries).

Key times for lakes generally depend on their altitude, size, and depth. High alpine lakes are best from midsummer to early fall. Large, cold lakes like Yellowstone offer good fishing all season. Shallower ones are often too warm in July and August for the best fishing.

Tackle shops: getting outfitted

First-rate tackle shops in the area stock hundreds of wet and dry fly patterns and all manner of angling paraphernalia. Fly shops can also help you find a guide, arrange lessons, and direct you to hot spots.

There are some two dozen tackle shops in the region; here are four that offer mail-order catalogs: Bud Lilly, 39 Madison Ave., West Yellowstone, Mont. 59758, (406) 646-7801; Dan Bailey, 209 W. Park St., Livingston, Mont. 59047, (406) 222-1673; Henry's Fork Anglers, Box 487, St. Anthony, Idaho 83445, (208) 558-7525 (shop is in Last Chance, Idaho); Jack Dennis, 36 E. Broadway, Jackson, Wyo. 83001, (307) 733-3270.

Hiring a guide

Guiding is a long-established trade here and there are hundreds of guides in the area. Hiring one is your quickest introduction to the region's streams.

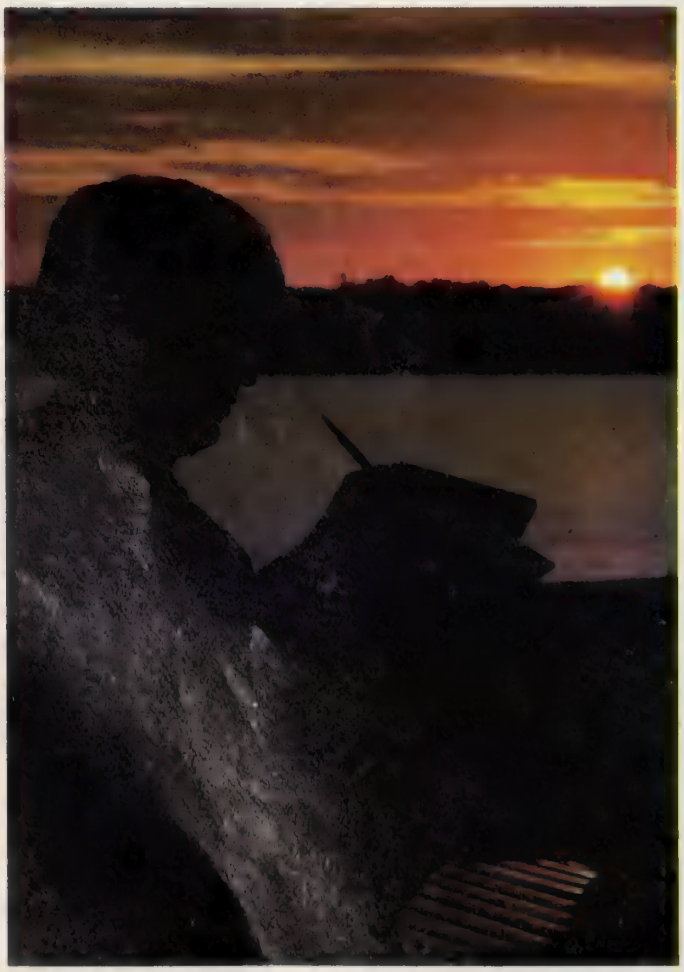
Expect the best. Your guide should work very hard at finding fish and helping you hook them. Talk to several, or ask for references before choosing one, or check with tackle shops. For a full-day trip you'll pay $125 to $150 for one or two anglers; lunch is usually included. Some guides offer half-day trips for less.

Float trips are popular: you'll cover miles of water raising many fish. If you're new to fly fishing, a walk-in trip may be better—your guide can work closely with you, helping you cast and explaining the ways of insects and trout.

Guest ranches—luxury fishing

There are scores of guest (or "dude") ranches in this three-state area. Many

(Continued on page 82)



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In addition to impressive traction, front-wheel drive helps give Eldorado more interior roominess than most luxury import models. Source: EPA Interior Volume Index.

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Eldorado has a larger dealer network than any luxury import...for readily available service and parts across America.

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Eldorado outsells any single luxury import model. Any single luxury import model. Source: R. L. Polk Registrations, Jan.-Oct., 1980.

...and more...distinctive styling.

...more going for it...and you.
When you compare everything you get with an Eldorado that you don't get with a luxury import, we think you'll agree that there is no comparison. Eldorado has more going for it...and you. Whether you buy or lease, see a Cadillac dealer, and see for yourself.

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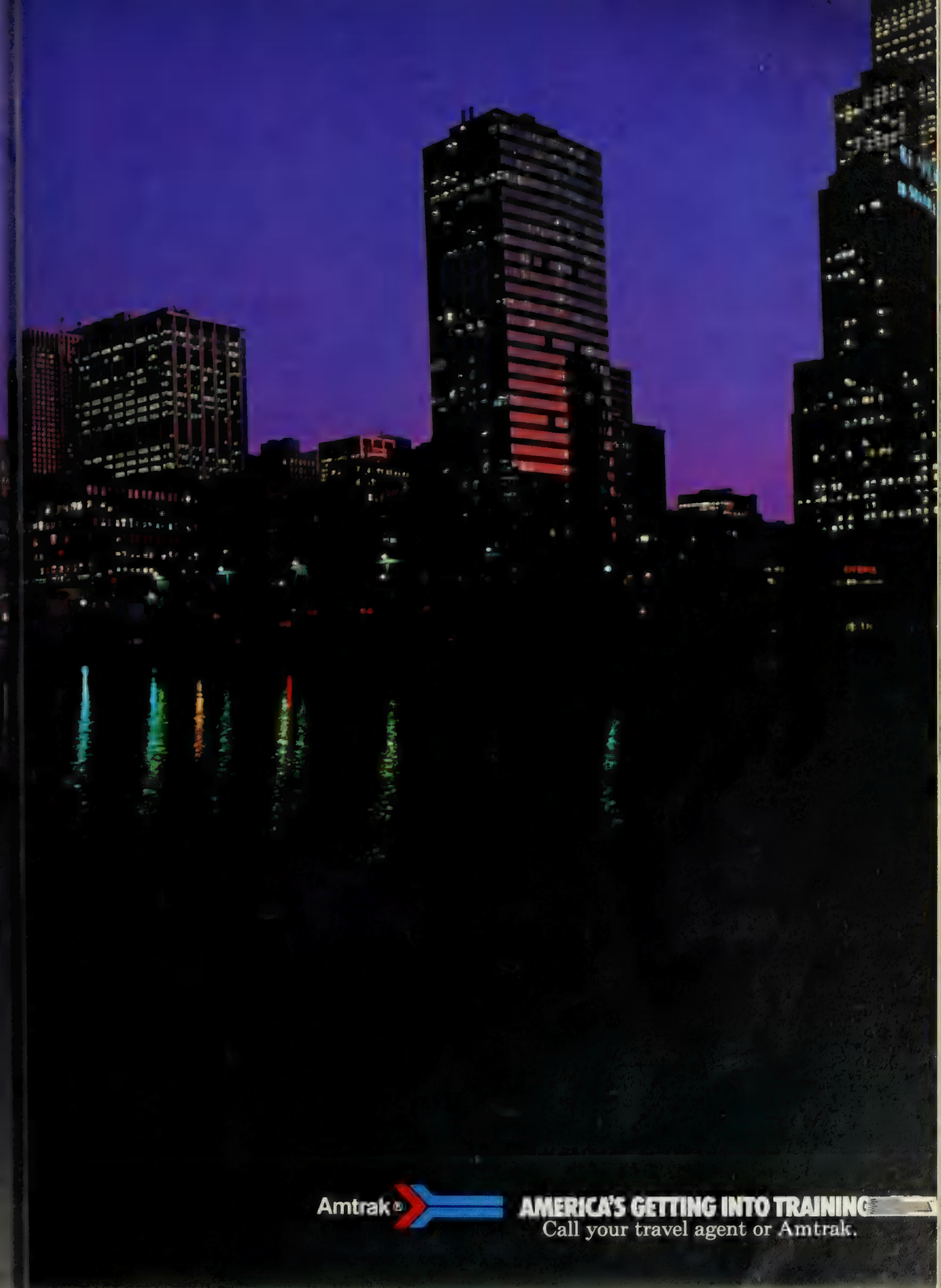
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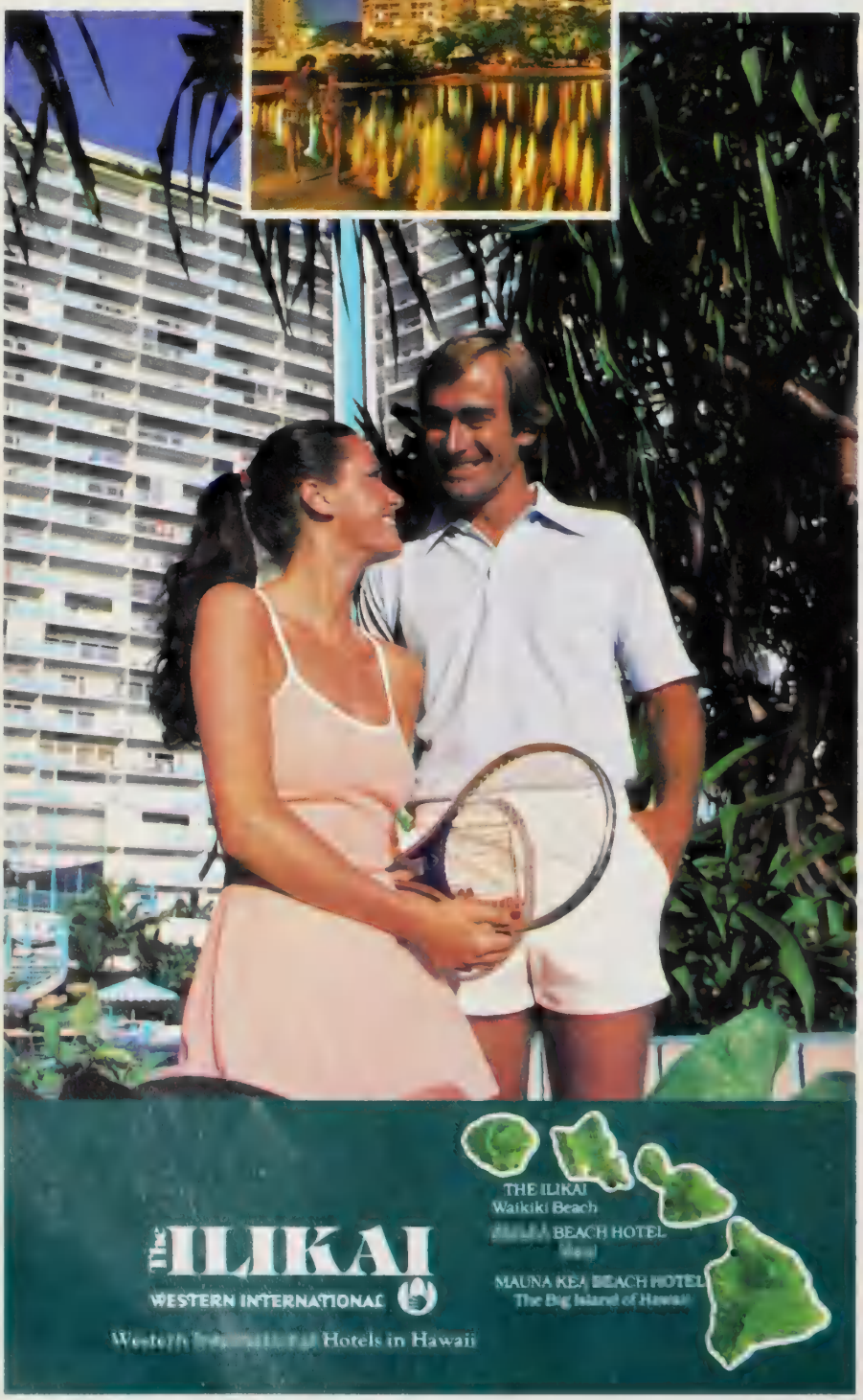

offer fishing as a sideline, but relatively few emphasize angling. A full week's program may cost $750 to $900; for some anglers it's worth it.

Usually this entitles you to fish private stretches of the best trout streams in the West. The emphasis is on catch-and-release fly fishing, usually from the bank, though boat outings are sometimes available. The fee covers guide service and lessons as well as lodging and meals.

Schools for fly fishermen

The Fenwick school offers three- and five-day courses ($250 and $395, including two meals a day) between June 15 and September 4 in West Yellowstone, Montana. For details, write or call the school at Box 967, West Yellowstone, Mont. 59758; (916) 443-6286 until May 31, then (406) 646-7596.

Free one-day clinics are offered weekdays by the West Yellowstone Chamber of Commerce, 100 Yellowstone Street; (406) 646-7701. Private lessons are available from guides and fishing pros ($50 for a half-day); some are given by women who specialize in teaching women. Three-day courses ($60) are given by Yellowstone Institute, Box 515, Yellowstone National Park, Wyo. 82190; (406) 443-0861.

From May 15 through September, the Montana School of Fly Fishing on the Stillwater River near Nye offers half-day casting lessons ($30), and two seven-day comprehensive courses for $445 and $595 (including lodging, meals, guide service, classroom and field instruction). For a brochure, write the school at Box 7, Nye 59061, or call (406) 328-8423.

Planning your trip, write for help

Last year, we traveled all over this region at the height of the midsummer tourist season, finding accommodations and campsites as we went without difficulty. It may not always be so easy. It's wise to book rooms ahead in certain popular tourist towns (like Jackson), or at famous national park lodges (like Old Faithful), or around anglers' centers (like Island Park or West Yellowstone) during early-season salmon fly hatches. Fly-fishing ranches should also be booked well ahead.

Guides are always available, but top guides should be booked in advance for peak fishing periods.

Free maps, accommodation directories (including campgrounds), state fishing regulations, and lists of dude ranches and guides are available for all three states from Montana Travel Bureau, Room A, Helena 59620; (406) 449-2654 or (800) 548-3390. For parks information, write or call Yellowstone National Park, Wyo. 82190, (307) 344-7381; and Grand Teton National Park, Moose, Wyo. 83012, (307) 733-2880. □

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Earthwork *built in 788 by Offa, an Anglo-Saxon king, threads through green hills of Wales (left). Coast-to-coast path (below) runs alongside or on top of dike intermittently for 60 miles*

Walking Offa's Dyke Path between England and Wales

Nearly 1,200 years ago, King Offa of Mercia ordered construction of an earthen dike to divide his kingdom from its western neighbor, Wales. Sixty miles of this bulwark have survived—in places as a massive bank over grassy hills, elsewhere as a thin line tucked away in a forest or a wavering course of hedgerows through flat cultivated fields.

You can follow these intermittent remains on Offa's Dyke Path, a 168-mile trail from the Bristol Channel to the Irish Sea. The walk usually takes two to three weeks, but if your time is limited, you can complete just a short section.

A *Sunset* reporter and companion spent five days covering the 45 miles between Hay-on-Wye (accessible from London by train and bus) and Welshpool (directly connected to London by rail). Here are the most magnificent stretches of dike, measuring up to 20 feet high and as wide. Vistas—from elevations up to 1,400 feet—are superb. The going, however, can be arduous—up a steep hill, down a slippery, muddy path overgrown with bracken, then up another hill.

You can walk the path at any time of year, but you may find it snowy in winter and lonely as well; May and June are the pleasantest months. It's best to head from south to north, the direction that trail strip maps and guidebooks follow.

To avoid losing your way, watch carefully for markers. Wooden shields and concrete plinths labeled "Offa's Dyke Path" (or, in Welsh, "Llwybr Clawdd Offa") dot the trail. Acorn symbols, stenciled or on metal plaques, are tacked on farmhouses, stiles, and fences. A compass is essential when fog settles in.

Nights are spent in farmhouses, small hotels, or inns along or near the trail. Dinner fare is wholesome and sometimes epicurean, as at Mellington Hall (pictured above). Typically, breakfast is a hearty meal of porridge, ham, sausage, and eggs. Per diem cost for lodging and food, including a trail lunch provided by the inn or store-bought snacks to carry in

Badge *for Offa's Dyke Association members resembles eighth-century coin. It reads OFFA REX (king)*

Geared for a rainy day, *hiker leaves Mellington Hall, a hotel just off the trail*

Other casual luggage is all skin. Nouveau Hobo is all skin and bones.

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a daypack, averaged $40 per person on our trip in 1980.

Mail-order pathfinders

Two helpful guidebooks show the route on sectional topographic maps; they also describe ruins, castles, and towns along the way. John B. Jones' paperback *Offa's Dyke Path* (HMSO, London; £4.50 when shipped by air, £3.50 surface) includes a guide to Welsh pronunciation. *A Guide to Offa's Dyke Path* by Christopher John Wright (Constable, London; £7.50 by air, £5.50 surface) is a heftier hardback illustrated with strip maps and panoramic photographs with the path superimposed.

You can order either publication from Offa's Dyke Association, Knighton, Wales (send banker's draft in pounds sterling). ODA also issues its own strip maps with accompanying notes and a booklet listing accommodations along or near the path (you'll need reservations during summer months). For a list of other publications and membership information, send a self-addressed envelope with international reply coupons available from the post office.

For help with other travel in Wales, write to British Tourist Authority, 612 S. Flower St., Los Angeles 90017. □

Fence stiles *and cows (here outside half-timbered farmhouse) are common obstacles on long-distance path*

Ireland

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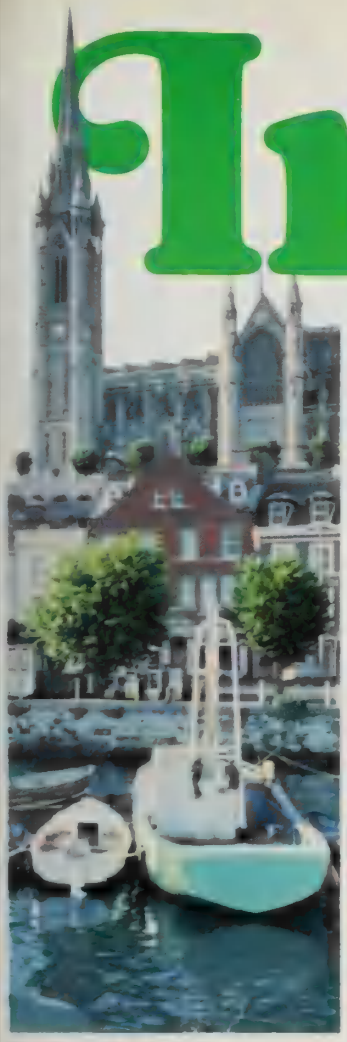
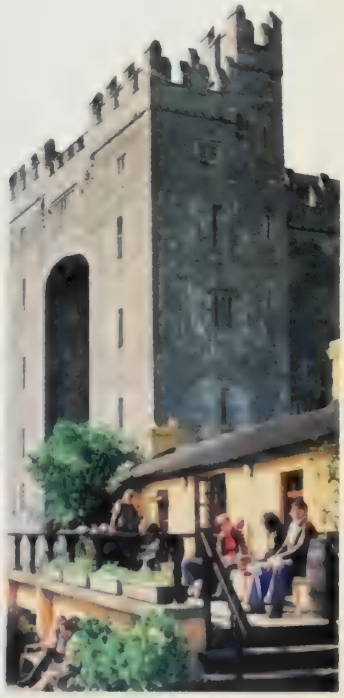


One Irish pound costs approximately $1.75



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*$799 June 13–August 29

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$719*

Round trip air fare Los Angeles to Shannon on Transamerica Airlines. This fare may be purchased up to day of departure and return portion is valid for up to one year. Direct air service once a week.

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GREGG MANCUSO

San Bruno's flanks spill down *to San Francisco Bay's flat tidal plain, checkered with suburbs and webbed by freeways*

San Bruno Mountain . . . wild lands above the freeway

Usually taken for granted, San Bruno Mountain rises serenely above freeways, only 7 miles north of San Francisco's airport. But from 1978 to 1980, when San Mateo County acquired 2,000 acres of the mountain, appreciation of this well-preserved territory has grown.

The mountain is one of the last surviving links to the San Francisco Peninsula's native environment; a visit will introduce you to flora and fauna that thrived all around before the age of concrete and subdivisions. And you'll get some good clear-day views of the Bay Area.

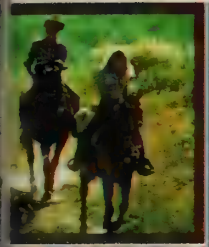
To arrange a guided walk, call David Schooley of the Committee to Save San Bruno Mountain at (415) 467-2145—or explore the area on your own.

Approaching the mountain from U.S. 101 (Bayshore Freeway), take the Brisbane offramp and exit to Bayshore Boulevard, then head west on Guadalupe Canyon Parkway; turn left onto Radio Road; park your car. Here, fresh-water marshland—the headwaters of East Fork Colma Creek—invites investigation. Around 150 kinds of plants have been identified in this wet, lush environment. As you scramble through ivy-covered eucalyptus, you may feel you're in an exotic rain forest rather than part of the suburb of Brisbane.

Continue driving up Radio Road to the summit. The mountaintop stands exposed and barren; you look down at scrub oak and dwarf manzanita clinging to the steep, grassy slopes. You can walk up a staircase to the summit (1,315 feet) by a microwave relay station.

From the end of Radio Road, you can start hiking. The only formal trail takes off from the west end of the ridge, down April Brook drainage, and back to Guadalupe Canyon Parkway. You can also take the dirt road eastward along the ridge; if you're more adventurous, follow meandering deer trails. Choose a clear day and watch for poison oak. □

Hazy skyline *of San Francisco backdrops hikers in chaparral. At left, sun blinks through canopy of bitter cherry trees*



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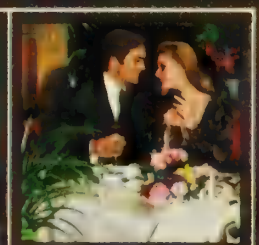

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THOMAS HOLDIMAN

All eyes follow *the feeding tongs as banded krait begins its meat course*

Snake watching in Thailand

Many poisonous snakes are indigenous to Thailand, and the Thai Red Cross Society collects them to extract venom for the production of antivenin serum. At the Bangkok snake farm (at the intersection of Rama IV and Henri Dunant roads), you can watch this process and see the large population of poisonous snakes kept there for this purpose. Even the most squeamish observer is likely to come away with warmer feelings for these reptiles.

Outside are pits holding large snakes—cobras, king cobras, and banded kraits. Smaller snakes—Russell's viper, green pit vipers, and Malayan pit vipers—are kept in cages inside a building which also houses a museum of snake lore.

Venom is extracted from each snake every two weeks. Handlers descend into the outdoor pits and overturn each dome-shaped shelter to reveal the sluggish snakes curled up beneath. Snakes to be milked are chosen by the size of the venom glands behind their eyes. The handlers pick up the selected snake, drape the fangs over a collection dish, and carefully squeeze the venom glands. Afterwards, the snakes are fed. Since cobras and kraits won't eat in captivity, fresh meat is forced down their throats with tongs, followed by milk.

The handlers then agitate the cobras so you can view them with their hoods flared; you see how unlikely you are to be bitten by these slow-moving snakes.

The snake farm is open weekdays, with venom extraction at 10 A.M. Admission is 20 baht ($1). □

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"Restfulness and retreat, rough and rustic"

Those words back at the turn of the century still apply today to the grand park hotels

"And then we came to the Inn, the most unique and perfect place; my room alone is the paradise of restfulness and retreat, though in a rough and rustic manner."

More than 75 years have passed since a visitor to Yellowstone, Mrs. E. H. Johnson, squeezed those words onto the back of a penny post card, but the hotel she praised—the Old Faithful Inn—still survives, as do others in the national parks of the western United States and Canada. Today's visitor may arrive in a station wagon instead of a horse-drawn allyho, may be clothed in down and denim instead of knickerbockers or Gibson Girl white, but the hotels still stand, still restful, still rustic, still unique and perfect in their way.

If you're planning a trip to a national park that contains one of these hotels, allow a few hours to admire or explore or sit down to dinner. If you'd like a change from sleeping bags or chain motels, consider staying the night.

DON NORMARK

Fields of flowers *have been greeting Glacier Park Lodge guests since 1913*

Living well in the wilderness

Today's purists may find the idea of hotels in the national parks at odds with their notion of what the parks should be. But Americans had spent their first century fighting the wilderness; when, in the late 1800s, they turned to embrace it instead, they did so with newlywed enthusiasm, ferocious but mixed with a few lingering doubts.

Snug, shingled, and 65, *Paradise Inn sits beneath ice-creamy Mount Rainier (left). Heavy snow pack didn't deter early guests*

Adventuresome travel was in those days mostly a perquisite of the well-off, and while it was one thing to sit in your library and read of John Muir's battles with Sierra storms, it was another to do battle yourself, especially if all your past summers had been spent at Newport or Saratoga Springs.

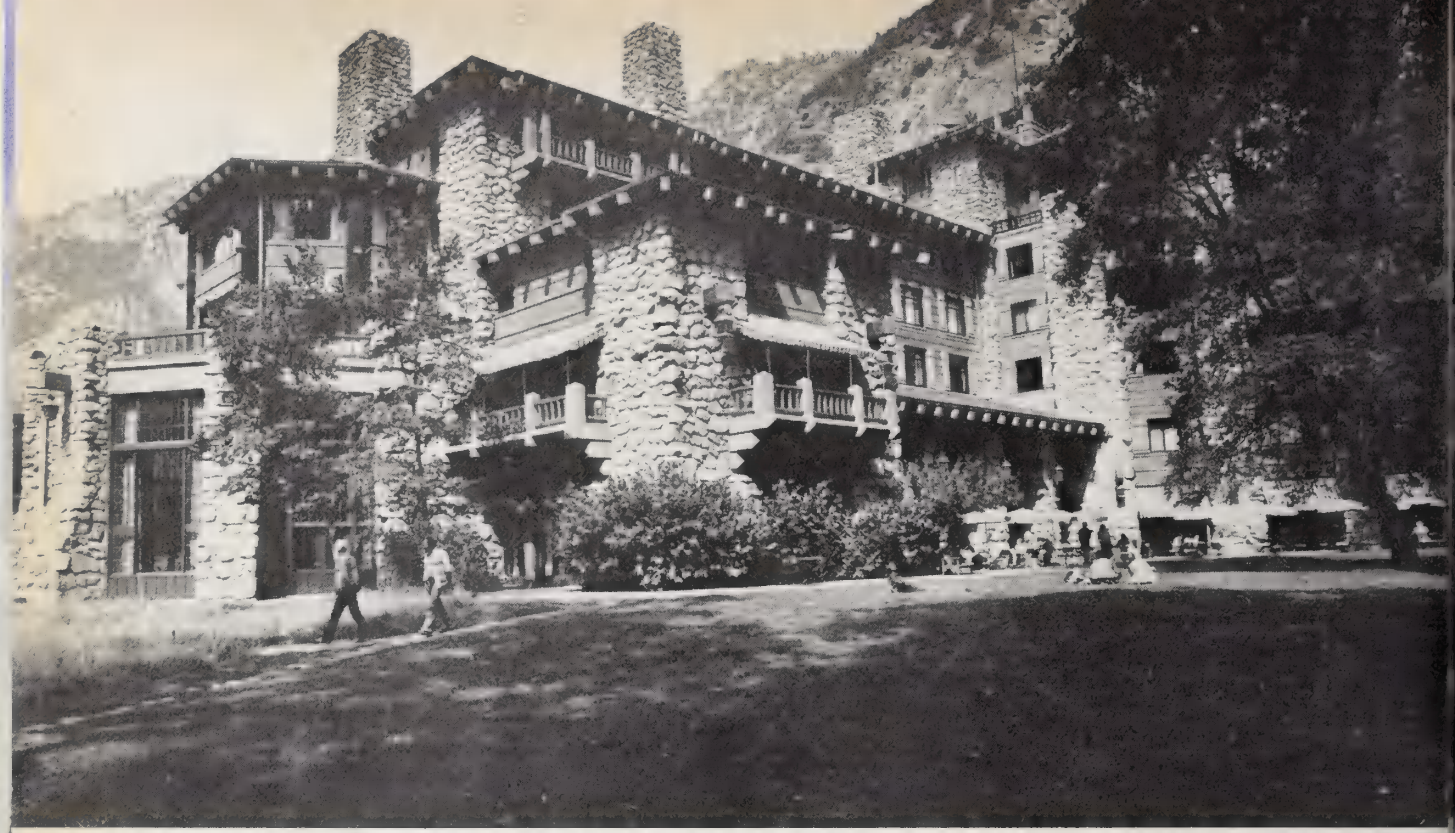
Fortunately, for those four or five decades from the closing of the American frontier to the Great Depression, there were people anxious to satisfy this craving for high living in the wild. Newly grown railroads were scratching for ways to profit from the views their tracks had unlocked: "Since we can't export the scenery, we'll have to import the tourists," said the head of the Canadian Pacific, and his American coevals agreed.

Nor did the national parks, themselves anxious to increase visitation, fight the process. (The Park Service, however, did not construct hotels; in Yosemite as well as the other parks, they were built and operated by private concessionaires, a system that has continued, with much squabbling, to the present.)

So up the hotels went. Against nearly insurmountable obstacles: 90-mile-an-hour winds pushed the Prince of Wales, in Alberta's Waterton Lakes National Park, off its foundations even before it was opened to the public; Old Faithful Inn was completed in a winter where temperatures slid to 40° below and snow piled in drifts to 20 feet high.

The hotels rose at what seemed then to be reckless cost: $250,000 for Grand Canyon's El Tovar, $500,000 for Many Glacier, $1 million for the Ahwahnee. Such sums allowed for extravagance of scale. The lobby at Old Faithful stretches 90 feet high; the one at Glacier Park Lodge is pillared by Douglas firs 40 feet tall and 40 inches in diameter. These were buildings as Brobdingnagian as the landscape they inhabited.

Yet perhaps the most awesome thing about them is how well most fit that landscape. This was no accident: the architects wanted a grandeur to complement,



BILL ROS

Stately stone columns *of Ahwahnee blend neatly into Yosemite landscape. Though apparently wooden, balconies are in fact concrete*

not compete with, the scenery, and to that end they designed with an unusually watchful eye to the terrain, employing as much indigenous rock and wood as possible. As architectural historian Merrill Ann Wilson has written, "Perhaps for the first time in the history of American architecture, a building became an accessory to nature."

Take a short walk from any of the hotels to see the truth in that statement. As you stand in a Yosemite meadow, the Ahwahnee's wood and granite façade melts into the valley floor and walls; stroll a bit from El Tovar and notice how this sprawling building's dull mauve siding and mesquite-colored roof seem to form just two more strata of the Grand Canyon; climb past Yellowstone's Upper Geyser Basin at nightfall and see the Old Faithful Inn—all 350 rooms of it—glowing cozy as a settler's cabin against the darkening forest.

Here we list 11 park hotels. There are other good ones; we felt these to be of particular historic and architectural interest. But don't consider them mere museums. You can still engage in the hotel guest's traditional pastimes: eating, shopping, and loafing.

If you plan to spend the night, better make reservations immediately; last-minute vacancies occur, but many hotels are booked up months in advance. And although their rates are steep, the hotels are not always the remote pleasure palaces one might wish them to be. Especially in July and August, they can be crowded with busloads of tourists—sometimes more than the college-student

Ahwahnee lobby *served as naval hospital during World War II*

YOSEMITE COLLECTION

staffs can handle. Furthermore, visitors used to the standardized comforts of motels may find their rooms lacking in the amenities—televisions and flawless heating, to name two—of more citified establishments.

Paradise Inn,
Mount Rainier National Park

Perched at 5,400 feet on Mount Rainier's south shoulder, Paradise is privy to many of the same clouds that cloak the peak. Still, one should be prepared to gap when the sky clears. Washingtonians ma argue that no view of Rainier is less tha inspiring, but this is surely one of th best: a skirt of pines and wildflowers th gives way to the clean sweep of Nisqual Glacier.

(Another, smaller point of interest li just to the south of the hotel. To th jaded eyes of the 1980s, Fairy Pond ma look like an unremarkable puddle, y

Ahwanee is the prima donna, Wawona is the girl next door

JERRY FREDRICK

Ahwahnee's *chandeliered dining room (above) is supported by massive timbers, which went into place in 1926*

throughout the '20s and '30s picture post cards delighted in showing college-girl Ariels, smothered in white veils, prancing around its muddy shores.)

As for the inn itself, it's an appealing gray-shingled building, its roof steeply pitched to slough off each winter's 15- to 25-foot snow pack. Lobby and dining room were built with Alaska yellow cedar; Western red cedar was used in the hand-hewn chairs and tables and, most spectacularly, in the grandfather clock and piano. The latter gets frequent use during hotel staff concerts.

The inn, which opens June 13 and closes September 13, has 100 rooms, 67 with bath. Rates are $18.75 for a double without bath, $34.50 with. For reservations, write to Mount Rainier Hospitality Service, 4820 S. Washington St., Tacoma, Wash. 98409. Telephone (206) 475-6260; after June 1, (206) 569-2706. Dining room hours are 7 to 9, noon to 2, and 6 to 8.

Ahwahnee Hotel, Yosemite National Park

As one of its early brochures purred, "The Ahwahnee is designed quite frankly for people who know the delights of luxurious living and to whom the artistic excellence and the modern comfort of the environment is important." So proper was the Ahwahnee that when one of its first guests returned wet and wrinkled from trout fishing, the doorman refused to let him in. The fisherman, shortly to be president Herbert Hoover, was not amused.

The Depression and World War II (when the hotel served as a Navy hospital) and mass tourism scoured away much of the Ahwahnee's snobbish veneer, fortunately without damage to the genuine charm beneath. A slow walk through the lobby will reveal the care the hotel's designers took: stained-glass windows, wrought-iron chandeliers, and a mural combine Indian and art deco influences; in the writing room just off to one side hangs a *toile peinte* (painted linen) that shows Yosemite's earliest residents—deer and bear and quail—browsing among native plants.

Equal care was taken with the exterior. Look closely at most of the massive "timbers" and you'll see that they are in fact concrete (necessary to stand up to Sierra winters) mimicking wood.

The Ahwahnee's dining room is open from 7 to 9:30, noon to 1:30, and 6 to 8:30. A double room costs $70. For reservations, write to Yosemite Park and Curry Company, Yosemite National Park, Calif. 95389; (209) 373-4171.

Wawona Hotel, Yosemite National Park

If the Ahwahnee is the prima donna of park hotels, the Wawona is the girl next door: a small (63 rooms, 44 with bath), simple resort whose lawn is the seamless green of summer memories and whose broad porches curtained with hop vines are perfectly suited to sipping lemonade and watchng the world pass by.

People have been doing just that since the 1860s, when the hotel opened on the east bank of the Merced River. In its early days, the Wawona mainly received travelers on their way to and from Yosemite Valley, but over the decades it began to draw its own devotees, particularly after a swimming pool and golf course were added.

Still, despite pool and putting greens, the hotel's steps toward modernity have always been tentative ones. Even today, the hotel dining room—open from 7:30 to 9:30, noon to 2, and 6:30 to 8:30—has a homeyness that would please most people's great-grandmother. As you explore the lobby, you'll find that the reproduction of the 19th-century guest room at its south end is not all that different from the rooms of today.

Future pro *lines up putt on green at Wawona Hotel in Yosemite*

Rates range from $20 to $32. For reservations, write to Yosemite Park and Curry Company (see at left).

Old Faithful Inn, Yellowstone National Park

Amble into the lobby of the Old Faithful Inn and you notice two phenomena right off. First, cameras are clicking and flash bulbs flashing at a rate of three or four times a minute. Second, most of the guests not busy snapping pictures are nonetheless walking around with their heads craned an uncomfortable 80° ceilingward. Old Faithful's lobby does that to people. Shafts of light drift down from apparently sunless corners, stairways leap to nowhere in particular, and lodgepole pine balcony is stacked upon lodgepole pine balcony as if the builders weren't sure when, or how, to stop. It is every child's dream treetop fortress, multiplied by 10.

Old Faithful was built in 1904 from a design by architect Robert C. Reamer. More than one observer, after staring at the strangely primal lobby and then walking outside to notice the apparently random scattering of dormer windows across the hotel's roof, has suggested that the architect's grip on his T-square was none too steady. This seems a little unfair, however, considering that Reamer's log-and-shingle style had great influence on later national park buildings.

One of the best ways to get a feel for Old Faithful Inn and for an age of travel that has vanished is to take a tour of the building, guided by a Park Service cham-

Baronial stone tower *of Banff Springs Hotel and peaks of Rockies back up Sunday soccer game*

bermaid. For more information on these, check at the Old Faithful Visitor Center. If you explore on your own, you'll find the hotel dining room open from 6 to 10, 11 to 2, and 5 to 10. Rates for the inn's rooms range from $21 (without bath) to $45. For reservations, write Yellowstone Park Division, TWA Services Inc., Yellowstone National Park, Wyo. 82190, or call (307) 344-7311.

El Tovar, Grand Canyon National Park

"El Tovar commands a prospect without parallel in the world."

So the Fred Harvey Company trumpeted the attractions of its hotel on the south rim of the Grand Canyon. Opened in 1905, it was by any standards a formidable institution. Water was brought in by railroad tank car from 120 miles away; eggs and milk were supplied by the hotel's chicken house and dairy, and vegetables by the hotel's greenhouse. The meals made from these raw materials were of course served by the Harvey Girls, who, aided by quips ("They kept the West in food and wives," said Will Rogers) and Judy Garland musicals, became formidable institutions themselves.

Although the Harvey Company often built in native Southwestern style (you can see a good example of this in the Hopi House just to the east of the hotel), for El Tovar it chose what it called a combination of Swiss chalet and Norway villa. The resulting building appears dark and ungainly at first glance, but soon the oddly angled rooms and porches seem amiably eccentric, especially when they hold a view of the canyon.

Worth a visit, the museum in nearby Bright Angel Lodge has, among other things, photographs of stout, historic guests (President William Howard Taft being both stoutest and most historic) and a rare, carved wooden cigar girl supposedly modeled on Jenny Lind.

El Tovar's rates range from $51 to $55. The dining room is open from 6:30 to 11, 11:30 to 2, and 5 to 10. For reservations, write to Grand Canyon National Park Lodges, Grand Canyon, Ariz. 86023; (602) 638-2401.

Glacier National Park: Lake McDonald Lodge, Many Glacier Hotel, Glacier Park Lodge

Early boosters of Glacier National Park faced a problem of semantics. What words could adequately describe the park's ragged gray peaks to people who had never seen them? Figuring that most people connected mountains with Switzerland, the boosters chose to promote the area as the "Alps of America." So it is easy to see why two of Glacier's three hotels kept the theme, and have a certain dirndl and cowbell quaintness.

The smaller of the two, Lake McDonald Lodge, was built in 1913. Early guests often arrived by boat; once inside, they saw, as they still do, a lobby of unforced folksiness, guarded by a fireplace moosehead and a stuffed platoon of smaller animals.

Many Glacier Hotel, 60 miles northeast of Lake McDonald, was built on a much larger scale. But Swiss crests still ride the front door of each of the hotel's rooms, and the lobby is hung with flags of that country's cantons. The hotel's partisans claim that its staff is the most talented of any in the park hotels—each summer, waiters and maids and reception clerks put on concerts, capped by a full-blown musical comedy at season's end.

BILL ROSS

atty, hatted equestrians *graced early days of El Tovar. Incomparable view of Grand Canyon and rambling hotel on south rim remain*

acier Park Lodge sits just outside Gla-er's eastern boundary and as a result s within flinching distance of the com-ercial clutter that grows up around na-nal parks. But the clutter is easily for-tten when you look at the hotel's broad elcome mat of flowers and walk into e lobby, which has a Palladian sym-etry unique among park hotels.

ates for the hotels, which open June 6, nge from $34 to $46. For reservations, ite to Glacier Park Incorporated, East lacier Park, Mont. 59434; call (406) 6-4841. Before May 15, write to 1735 Fort Lowell Rd., Tucson 87719; (602) 5-0377. Dining rooms are open 7 to 9, on to 1:30, and 6 to 8:30.

nff Springs Hotel,
nff National Park

regal is the Banff Springs Hotel's pro-e, so tweedy and paneled its public oms, and so sweetly rosy its conserva-ry that visitors not dressed like char-ters from a P. G. Wodehouse novel ay feel they're not living up to the ho-l's expectations. They should press on vertheless: the hotel is a duchy too in-resting to miss.

yled after Loire Valley chateaux and ottish baronial castles (the area was med for a supposed resemblance to nff, Scotland), the hotel was built om limestone quarried ½ mile away, en cut by Italian stonecutters and eced in place by Scottish masons. Pub-rooms are filled with a stately assort-ent of antiques and uplifting prints—*he Founding of the Bank of England* is e of the latter.

hen you tire of admiring furniture and art, you can lunch on the terrace and see why the hotel was put here at all: it looks out on the rolling Bow River, reachable after a short walk through the golf course, and beyond it the green slopes of the Rockies. Hotel dining rooms are open from 7 to 10, noon to 2, and 6 to 11. A double room is $100 Canadian. For reservations, call or write to Banff Springs Hotel, Box 960, Banff, Alberta, Canada; (403) 762-2211.

Chateau Lake Louise,
Banff National Park

From the day in 1882 when railroad surveyor Tom Wilson discovered a lake 35 miles northwest of Banff, it has inspired rapturous hyperbole, most of it lapidary: Wilson called his find Emerald Lake (the name was changed to honor Princess Louise, a daughter of Queen Victoria), and descriptions have jangled with jewels and gems and priceless diadems ever since. The trouble is, it's all true. The lake really is turquoise in the opaque light of noon, jade at dusk, and a sun-fired diamond at dawn.

The chateau is the fourth on its site. The first three, all wooden, burned; the present brick building was completed in 1925. It isn't as impressive as Banff Springs, but the 373 rooms are comfortable, the gardens impeccably groomed, and the view capable of unearthing the jewelry-minded poet in anyone.

The dining room is open from 7 to 9:30, noon to 2:30, and 7 to 11. Rates range from $50 to $110 Canadian, varying by season. For reservations, call or write Chateau Lake Louise, Lake Louise, Alberta; (403) 522-3511.

Prince of Wales Hotel,
Waterton Lakes National Park

Drive west towards Waterton Lakes National Park, and the prairie rises to meet the east wall of the Rockies. The road makes a turn and there you see, sitting on a bluff overlooking the lake itself, the Prince of Wales Hotel. It seems a folly in both the architectural and everyday sense of the word: a gabled, seven-story chalet plunked down in a wilderness that could only defeat it.

So far, however, it has not been defeated. Despite five and a half decades of snow and winds (upper-level rooms still shudder thrillingly on storm-tossed nights), the Prince of Wales continues on its faintly reserved, faintly Anglicized way: you'll find lots of woolens in the gift shop. (Even the nearby resort town, Waterton Park, seems cleaner and more firmly rooted than American settlements of similar purpose.) Room rates range from $34 to $46. The dining room is open from 7 to 9, noon to 2 and 6 to 8:45. For reservations, call or write to Glacier Park Incorporated, East Glacier Park, Mont. 59434. □

"El Tovar commands a prospect without parallel in the world"

NATIONAL PARK SERVICE

Park ranger *chambermaid led last summer's tours through Old Faithful Inn*

The color game

Among our players and effects... sunny sunflowers, floating pink cosmos, 'Nicki Reds,' apricot celosia, blushing pink mallow rarity

In summer, the eight annuals pictured here and on our cover are star garden performers. They can fill landscaping niches reserved for everything from brilliant bedding plants to stately background flowers, they make fine cut flowers, and they give you new colors and textures to work with. Using them, you avoid the commonplace look that comes from overemphasizing such everyday annuals as marigolds and petunias.

You can usually find celosia, cosmos, nicotiana, salpiglossis, and sometimes even annual mallow as bedding plants. But be forewarned: in the nursery, most of these are flowerless ugly ducklings. They need the elbow room of the garden to really show their stuff.

The two sunflowers and *Tithonia* are available only as seeds.

Choreographing colors and heights . . .

Salpiglossis sinuata, the plant on our cover, delivers striking flowers on graceful 2- to 3-foot stems. The flower form may remind you of its shorter petunia relatives, but colors are far more breathtaking—mahogany, reddish orange, yellow, and purple marbled with contrasting tones. 'Splash' is a vigorous, free-flowering hybrid with a wide color range and many bicolors. 'Bolero' grows a little shorter and has large flowers on bushy, compact plants.

Set off the dramatic flower colors with gray foliage plants or—in California—with purple princess flower (*Tibouchina*).

Celosia plumosa 'Apricot Brandy' is a champion bedding plant in a new, softer color for celosia. It resists the stem rot that plagues its relatives in the mild coastal climates. It also tolerates drought, thrives in heat, and holds up well in rain. Plants grow 16 inches high and 20 inches across.

For a striking border, contrast this subtle celosia with white sweet alyssum and blue ageratum or lobelias.

Cosmos bipinnatus grows into a tall, airy background plant that demands little care. The one shown is 'Radiance', an old pink variety. Pink 'Sensation' cosmos are as effective, and far easier to find on seed racks or as seedlings.

Expect cosmos to grow 6 feet tall, 3 feet wide. Plant it behind nicotiana (as shown), lavatera, salvia 'Blue Bedder', or white marguerites. Or plant it in containers of mixed annuals.

Nicotiana 'Nicki Red' is one of four colors in the 'Nicki' series; the others are lime, white and pink. All are bred to stay compact and about 18 inches tall. Unlike their predecessors, flowers of this group remain open in the lower light of morning and evening.

These new nicotianas excel in borders or containers, combined with each other o with other annuals. Teamed with co mos, the red is an instant classic.

Annual mallow (*Lavatera trimestri* 'Silver Cup' forms a column of show pink blooms that tolerate drought, ar even some frost in fall, but stems w need stalking. Seed growers say it grov only 2 feet tall, but under the best co ditions it tops 5 feet. Sow on the groun

Use it for contrast in front of evergreen or flank with pink, white, or red cosmo For a handsome three-tiered combin tion, try dwarf marigolds in front, *Sedu spectabile* in the middle, and lavatera the background.

Sunflowers (*Helianthus annuus*) 'Piccol and 'Italian White' are 4-foot plants th differ only in color. Both love heat, to erate drought at maturity, and gro quickly and easily from seeds sown rig in the garden.

Plant them together or separately background or border plants. They blen well with warm-toned zinnias, glorio daisies, marigolds, and petunias.

Mexican sunflower (*Tithonia rotund folia*) is a fast-growing heat lover to so directly in the garden. It tolerat drought, but if you fertilize and wat it too well, it can grow to a lanky feet. The most widely available form 'Torch', an old All-America winner.

Its fiery flowers show up well again fences or as background plants, alone combined with the two sunflowers pi tured with it at far right.

Seed sources

You can mail-order seeds of any of th annuals listed here. McLaughlin's Seed Mead, Wash. 99021, sells Lavatera 'Si ver Cup', Nicotiana 'Nicki Red', and Sa piglossis 'Splash' for $1 a packet. Par Seed Company, Box 31, Greenwoo S.C. 29646, sells celosia, cosmos, lava tera, and Mexican sunflower for 75 cen each. Sunflower 'Piccolo' is 80 cent 'Italian White' $1, Nicotiana 'Nicki Re $1.10, and Salpiglossis 'Bolero' 65 cent Add 85 cents per order for handling.

Our garden contest is not limited to flowers

The nicotiana, cosmos, and lavatera on the facing page are growing in Roy Peterson's Seattle garden, which was one of the winners in the 1980 *Sunset* garden contest.

But the contest is by no means limited to flowers.

You can enter our 1981 contest with vegetable gardens, water gardens, indoor gardens, or any kind of garden you've succeeded with. We're looking for landscape ideas, solutions to problems, and simple nuts-and-bolts techniques that help you excel with plants.

To enter, send your name, address, daytime telephone number, and five snapshots of your garden to Garden Contest, *Sunset Magazine*, Menlo Park, Calif. 94025. We'll send you an entry form and further details.

If your garden is at its peak right now, call us at (213) 380-9680 in Southern California, (415) 324-5471 in Northern California, or (206) 682-3993 in the Northwest; we will do our best to scout your garden soon.

Soft new color *for a tough bedding plant: 'Apricot Brandy' celosia was 1981 winner of bronze medal. Here you see it in Sunset's All-America garden*

NORMAN A. PLATE

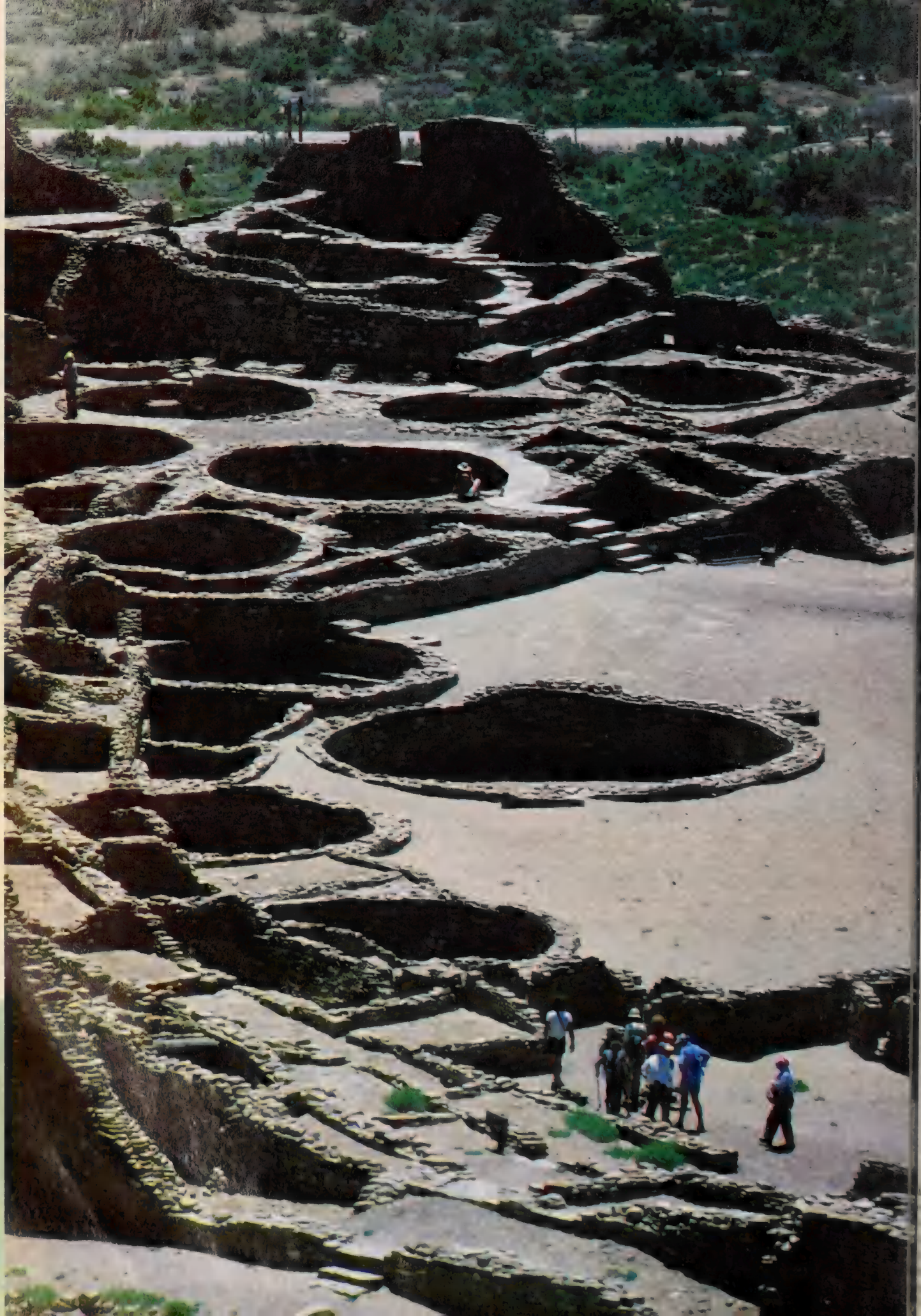
MICHAEL THOMPSON

Well-matched companions: *'Radiance' pink cosmos floats above bed of 'Nicki Red' nicotiana; both come in red, pink, and white*

little-known showpiece, *annual mallow (Lavatera) resembles bushy, 3- to 6-foot hollyhock with profuse bloom*

Bouquet-size sunflowers *include yellow 'Piccolo', 'Italian White', and orange Mexican sunflower (Tithonia)*

PETER O. WHITELEY



The Anasazi puzzle

New Mexico's Chaco Canyon is the place. It was a metropolis in A.D. 1100. If you would like to see for yourself, you can. It's wise to plan ahead. It is remote. Roads are unpaved

One of the West's most tantalizing archeological puzzles is unfolding in our nation's newest parkland: Chaco Culture National Historical Park, a 4-hour drive from Albuquerque. Hidden amid backcountry mesas and canyons in northwestern New Mexico, a civilization once flowered in this harsh desert land, then abruptly vanished two or more centuries before Columbus set sail.

The National Park Service, now wrapping up a decade of research in the San Juan Basin (see map on the next page), has pioneered the use of space-age technology to probe secrets of prehistoric man who lived here from 9000 B.C. to about A.D. 1300. Findings have raised new questions and dramatically altered theories about this civilization.

Modern pilgrims—for that's an appropriate spirit to bring to the park—can sit in Chaco Canyon's great kivas (circular ceremonial chambers) and explore half a dozen great masonry pueblos, including Pueblo Bonito pictured at left. So skillfully planned and artfully constructed are these structures that even modern builders and solar architects come here to learn from the ancients. These pueblos were built by many hands working together intermittently for up to 300 years. Visitors also can walk ancient trails and see stairs carved into canyon walls. As they do, they may join scientists in pondering the many unanswered questions.

New clues suggest a great nation

Scientists used to think the Chaco (say *chaw*-ko) culture developed independently from cousin Anasazi communities like those at Mesa Verde and Canyon de Chelly (see the map). (Navajos coined the word Anasazi meaning "ancient ones," when they arrived in the San Juan Basin in the 1700s; Anasazi descendants are thought to be today's Hopi, Zuñi, and Pueblo people.) Their remarkable multistoried masonry pueblos began about A.D. 900, flowered to their finest architecture by 1000 to the 1150s. But by 1300, this Anasazi golden age had ended—the entire area lay abandoned.

With fresh evidence, the scenario grows more intriguing. Aerial and satellite photography reveal what appears to be a vast network—perhaps 250 miles—of prehistoric roads radiating from Chaco Canyon, running in straight lines for up to 40 miles. They appear to connect with some of 70 pueblo sites of the same era, masonry, and design as Chaco—sites called Chacoan outliers. (Aztec and Salmon ruins are two outliers open to the public; see the map). Other roads end where building materials were gathered.

On-ground tests show some well-engineered road sections with stone curbs, and causeways built at arroyos. Other roads are unpaved—but still 30 feet wide. That's especially puzzling since the Anasazi had no burros, no horses, no wheel. These roads and the outliers are tipoffs that this was a much more complex, sophisticated people than previously imagined.

Chaco Canyon, a metropolis of some 5,000 residents in its heyday (A.D. 1100), may have been the commercial trading center of a restless nation the size of Belgium. And Chaco Canyon's kivas suggest it was also a ceremonial center.

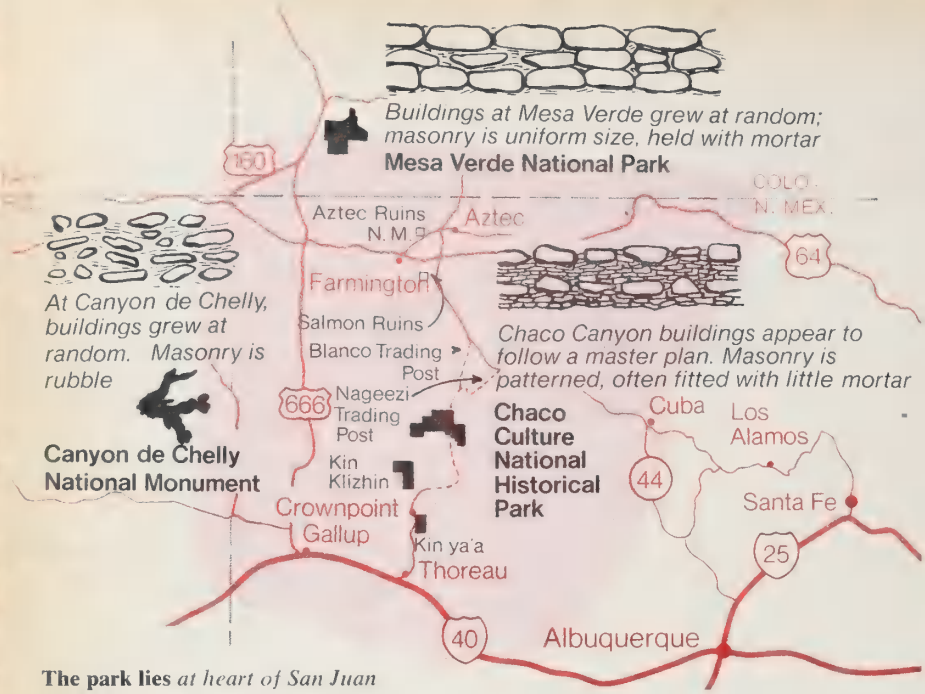
Locally made artifacts show signs of craft specialization and increased trade as Chaco's population grew: turquoise beads, basketry, refined pottery, woven sandals, and cloth woven from plants, feathers, fur, and then from cotton have been found throughout the area. Parrot and macaw remains plus copper bells imply Chacoan trade with central Mex-

Pueblo Bonito *doorways (above) show off superb Chacoan masonry—hard sandstone quarried and fashioned with stone tools, then laid so carefully little mortar was needed. Visitor at right passes by wall stabilized with wood buttress. Many walls are still vulnerable*

DON NORMARK

Knot of visitors *passes almost unnoticed amid 660-room Pueblo Bonito—largest, best-designed prehistoric structure north of Mexico. Circular areas are kivas (ceremonial chambers). Square rooms may have served as living quarters or as storage areas*

EVE NORTHRUP



The park lies *at heart of San Juan Basin (shaded area). New evidence suggests a sophisticated 10th- to 12th-century nation flourished between today's I-40 and Mesa Verde*

ico; seashells imply trade with Gulf of California tribes.

This was a farming culture. To cultivate squash, corn, and beans, the Chacoan people engineered dams and catchments to conserve precious summer rains. There's evidence of terrace and irrigation systems, and of the possible use of solstice markers (some Pueblo people today still plant by solstice calendars). Storage rooms in Chaco's pueblos suggest stockpiling crops against drought or for trade.

An effort to save the evidence

The San Juan Basin is one of the richest archeological areas in the United States, and the only one of its size remaining largely intact, but that's soon to end. New archeological discoveries come as energy companies converge here to relieve this mineral-rich basin of its resources: coal (huge strip-minable deposits lie just north of Chaco Canyon), uranium (a sixth of the world's known supply lies in veins just south of the canyon), plus widespread oil and gas deposits. The next decade will see roads paved, railroads built, trailer towns of 20,000 and more springing up, and coal gasification plants constructed—and the basin will never look the same.

New park status (Chaco had been a national monument since 1907), which was granted in January, is a modest though critical measure to preserve enough Chacoan culture for us to one day understand how the Anasazi governed their society and thrived in such a marginal environment. The park's boundaries were increased by a third, to 33,989 acres. Thirty-three Chacoan outliers located throughout the basin are promised some federal protection, but little of the ancient road system is included.

Park personnel and scientists worry that in addition to the obvious changes mining will bring, added population—and tourism—could increase vandalism and pot hunting. And nobody knows exactly how mine blasting or rumbling trains and trucks will affect the ruins. Other concerns are air quality and acid rain.

Planning your pilgrimage

For visitors, a potential problem is that Chaco Canyon isn't equipped to deal with huge crowds. But some planning can smooth your way.

Access remains by dirt road—devilishly slippery during rains (July and August are thunderstorm months). Before a tempting a trip if rain or snow threaten check road conditions with the park (505) 786-5384. At 6,200-foot elevatio the canyon can get hot—up to 100° summer; nights are cool, winters cold.

If you plan a one-day visit, start earl allowing time to stop at the visitor ce ter, to explore several of the great ruin and maybe take a back-country wall Farmington is the nearest town wit motels (65 miles); Gallup is 90 mile Albuquerque 165 miles.

Camping is limited to the park's 36-un campground, so campers should arri early, if possible at midweek wh crowds are smaller. Groups of 10 more may reserve space in two cam areas (for 36 and 25 people). Reserv tions for smaller numbers are not a cepted, but you can call ahead to che crowd estimates (overflow campers m be permitted in group areas). Bring yo own cooking fuel and food. There a rest rooms (cold water) and barbecu grills, but no hookups or showers. Cam ing and park entry are free.

Easiest access from the north and ea is 26 miles of dirt road beginning Nageezi Trading Post, 45 miles nort west of Cuba on State Highway 44. take the longer dirt turnoff at Blan Trading Post, 8 miles northwest of N geezi. (Both posts have some food, gas line; they're open weekdays 9 to 5, Sa urday 9 to noon.) From the south, Sta 57 through Thoreau is paved pa Crownpoint, then 25 miles of dirt ro lead to the park. Both routes have ste stretches.

They examine prehistoric road *at Chaco's Pueblo Alto. Soil was cleared from 30-foot-wide road; stone curbs marked its edges*

Bird's-eye view *of Chaco Canyon rewards hiker on mesa above Pueblo Bonito ruins*

DON NORMARK

Rock cairn *guides hikers along new trail leading to Pueblo Alto, Jackson Staircase*

Getting about . . . where to go

Chaco Canyon is compact: a 12-mile-long, mile-wide canyon cut by the often-dry Chaco Wash. Visitors arriving on the northeast road will pass six of the major ruins before reaching the visitor center/museum (open 8 to 5 daily except Christmas and New Year's Day)—a good place to get oriented, ask questions, buy books about the area. Ask about showings of two films on Chaco, campfire discussions, and ranger-led walks.

Hikers squeeze *up ancient passage behind Kin Kletso ruin to mesa-top trail leading to Pueblo Bonito overlook*

Disappointingly few Chacoan artifacts are on display; most pieces are in New York and Washington, D.C., museums. One book sold is *The Anasazi*, by J. Richard Ambler (Museum of Northern Arizona, Flagstaff, 1977; $5), which includes color photographs of Anasazi pottery, weavings, pipes, ceremonial items.

Self-guiding walks with free-to-borrow interpretive booklets can direct you through four ruins: Pueblo Bonito and Chetro Ketl, neighboring Pueblo del Arroyo, and Casa Rinconada, site of the largest Chaco Canyon kiva—63½ feet across (test the acoustics inside).

Scientists are debating whether rooms in the larger pueblos were used mainly to store food and supplies, or whether they were living quarters for a Chacoan upper class or even for traders, guests. Compare rooms here with much more modest living quarters in pueblos near Casa Rinconada. Does this indicate a less democratic society than found in today's pueblos? One theory is that Chaco's labor-intensive architecture and road network required a leader class to direct all the workers involved.

To protect the hundreds of unexcavated archeological sites, rangers have curtailed cross-country walking here. But several trails open to visitors will give you best views of the canyon. All are marked by rock cairns, as pictured above. Bring canteens for longer walks: a quart of water per person for a 2-hour hike. Get a free back-country permit (required for any off-road hike) at the visitor center.

If you can only make one walk, try the trail behind Kin Kletso ruin: it climbs a cleft in the cliffs and takes you an easy half-mile to a Pueblo Bonito overlook. From there, a loop continues 2.6 miles to Pueblo Alto—terminus for several prehistoric roads. (This one-story excavation has been filled, so you won't see much of it.) Pueblo Alto is in line of sight with Tsin Kletsin pueblo on a facing mesa. Recent experiments with bonfires make it seem likely these were deliberately positioned—as were other outliers—as part of some visual signaling system. From the same trailhead, a 4.8-mile loop leads to stairs carved at the end of another ancient road.

Your visit may prompt you to wonder why the Anasazi picked this canyon for a metropolis, how so many survived here, and—most of all—why they left Chaco. While a great drought from about 1275 to 1300 is considered the reason for the exodus from Mesa Verde and other basin sites, Chaco's residents left in the 1100s. Did Chaco grow too big? Did its people simply deplete the land's resources?

If there's a message for us, Dr. Jim Judge, head of Chaco research for the past six years, suggests, "The relation of man and his environment is always a close, even fragile one. For all their sophistication, at one point, perhaps nothing they could do could save them. We might remember that." □

DARROW M. WATT

Smooth slabs *of beige-colored concrete, each 4 feet square, were poured in place between redwood 2 by 4's. Indoor portion was finished with several coats of paste wax, then buffed to a satiny shine. Architect: David Wright, Nevada City, California*

DAVID SH

Concrete caps *were set in grid of Douglas fir 2 by 3's o mastic-covered plywood subfloor, grouted, then seale with three coats of mat polyurethane. Design: Polly C and Ken Haggard, San Luis Obispo, California*

Paving comes indoors

Here are seven examples owners like. Why? Looks. Durability. Ease of cleaning. Heat efficiency. Sometimes cost saving

MAN A. PLATE

ded with pebbles, *concrete paving ; then finished with acrylic sealant*

DON NORMARK

Random-pattern flagstone *set in mortar goes from one living area to another. Banana oil sealant finishes surface. Architect: William P. Bruder, Phoenix*

rs *in house shown above ? 2 by 3's of red oak bolted to edges clearer view at night. ign: Alex Riley, Point Reyes, California*

Imprinted *and colored concrete looks like terra cotta tiles. Concrete was poured and smoothed, then stamped with special tools*

Brick pavers *were set herringbone-style in sand over concrete. Architect: George Christensen, Phoenix*

oor paving needn't be confined to high-traffic areas such ntry halls or kitchens. In the six examples we show here, onry floors come into living and dining rooms. Three of floors cover most of the house. And two extend to out- r areas as well.

ners like these floors for several reasons. They're durable easy to care for: once sealed, most only need damp mop- g and occasional waxing or resealing. Paving can visually end a house's living area when the same pattern flows con- ously from indoor rooms to adjacent patios or walks.

), concrete, brick, and stone have enough thermal mass tore the sun's heat—collected through adjacent windows passive solar houses—for short periods of time: the con- e-cap and seeded-concrete floors pictured above were in- stalled primarily for their heat-gain capabilities.

You can save installation costs by laying your own brick, concrete-cap, or flagstone floor, but you may need profes- sional help to execute major paving. Three of our four con- crete floors were poured in place by professionals, then textured, seeded with pebbles, or imprinted with a paver- simulating design. Owners laid the concrete-cap floor.

Concrete cap is usually used to cap concrete-block walls. A standard-size cap (1¾ by 8 by 16 inches) costs about 60 cents at building supply yards; it can be cut with a brick chisel or masonry blade.

Masonry floors are substantially heavier than conventional ones; before considering them on anything other than a con- crete slab, consult an architect or structural engineer. □

Fresh fruit with orange-yogurt dressing

For a spring brunch or lunch, serve pineapple spears, whole strawberries, thin cantaloupe wedges, or clusters of red and green grapes to dip into the creamy dressing. Serve with rolled sliced ham, croissants, and butter

Crisp vegetables with sweet-tart dressing

For dippers, choose crisp carrot or celery sticks, chilled cooked broccoli spears, plump cherry tomatoes, whole mushrooms, and canned baby ears of corn. To round out the meal, add hard-cooked egg wedges or fingers of cheese or cooked ham

Chef's salad with creamy mustard dressing

Hearty salad combines fingers of kuminost and Cheddar with strips of cooked chicken or turkey and ham. Served on a lettuce-lined basket with the mustard dressing, it's a portable feast. Add vegetable dippers like whole radishes (leave on some of the tops for easy dipping), slices of zucchini, and pitted ripe olives

GLENN CHRISTIANSEN

We call these handsome luncheon plates finger salads. Fresh and informal, each is presented with a small cup of flavorful dressing to use as a dipping sauce.

Try the ingredients shown here, or create your own combinations of fruits and vegetables, meats and cheeses. Use whole fruits and vegetables when possible, or cut them into pieces or shapes of about two- or three-bite size.

We've paired each of our salads with an appropriate dressing. You can prepare these dressings ahead or quickly stir them together just before serving. (If made ahead, cover and chill as long as overnight.) Each recipe makes 1 to 1¼ cups dressing, or enough for 2 generous servings.

To serve, spoon dressing into small bowls or cups (about ½-cup size) and set one on each plate alongside the salad.

Orange-Yogurt Dressing

Stir together ¾ cup unflavored yogurt, ½ cup sour cream, 1½ to 2 tablespoons honey, ½ teaspoon grated orange peel, and a sprinkling of ground nutmeg. Serve with the finger fruit salad.

Sweet-tart Dressing

In a blender, combine ½ cup salad oil, 2¼ tablespoons white wine vinegar, 3 tablespoons catsup, 1 large clove garlic, ¼ cup chopped onion, 4 teaspoons sugar, and ½ teaspoon paprika. Whirl until smoothly blended. Serve with the vegetable finger salad.

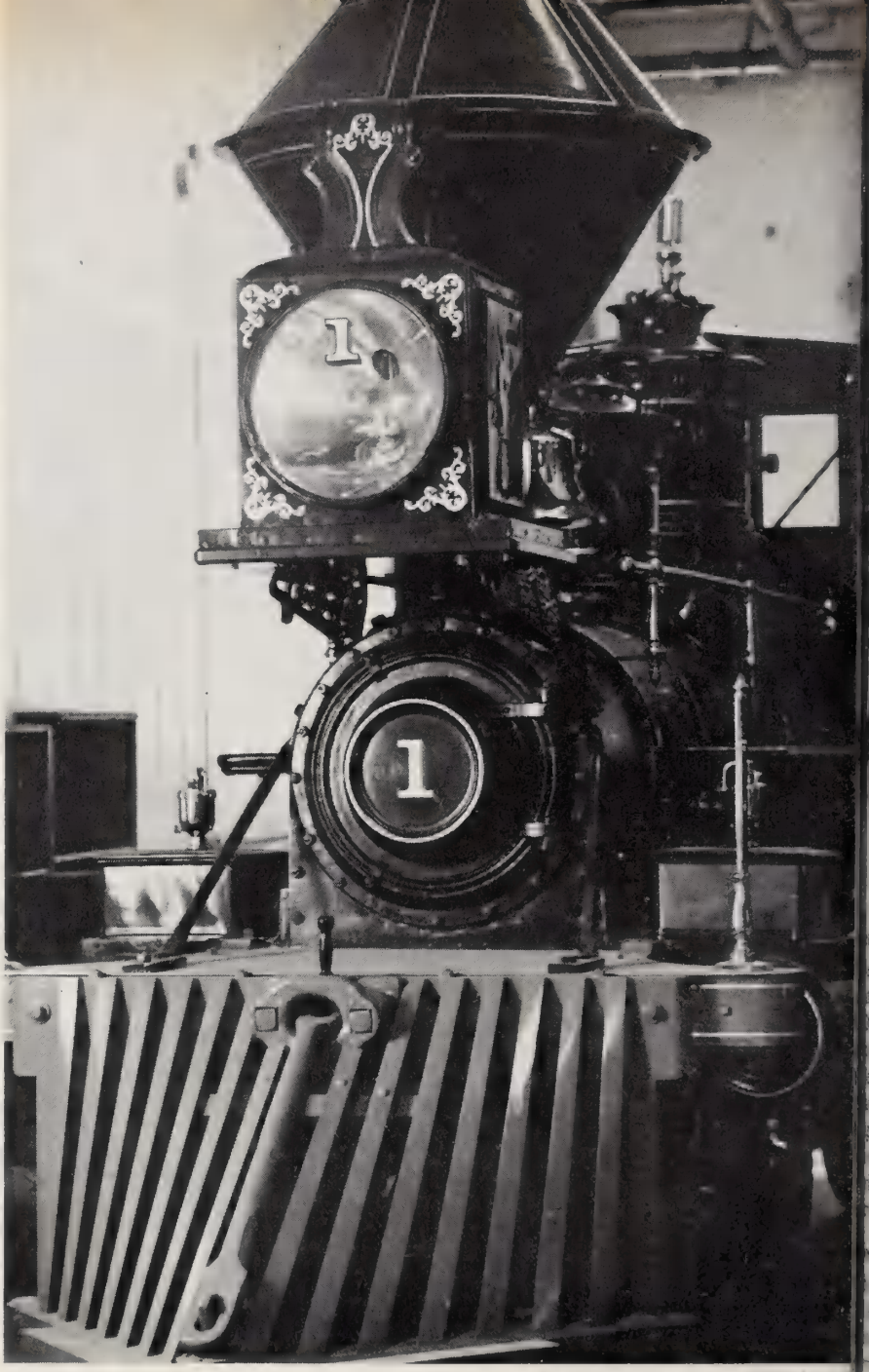
Creamy Mustard Dressing

Stir together 2 tablespoons lemon juice, 3 teaspoons Dijon mustard, ¾ teaspoon garlic salt, ½ teaspoon paprika, and a dash pepper. Blend in 1 cup mayonnaise. Serve with the chef's finger salad. □

Eat-with-your-fingers salads

One is fruits, one is vegetables, one is chef's style. All three call for dipping

Night train to nowhere: *two parts of Pullman-type sleeping car named St. Hyacinthe are made up as day car (above), as sleeper (below). Visitors can feel, see night ride effects as car gently sways, lights flash by, and snores issue from made-up berth*



NORMAN A. I

Southern Pacific *engine number 1, C. P. Huntington (built 1863), will be on view*

Opening May 2 in a new museum in Sacramento, an on-going show

California's rip-roaring railroad past

In the gilded age of railroading, st locomotives dared to snort at the h ens. Their whistles howled so defiant must have seemed to listeners that st trains would go on running fore Surely in the 1870s it seemed so in C fornia, where railroad tracks and rai coons gripped the state in iron embr But history had other plans for st engines. Today they're mostly memo and the few that survive are mostly s symbols of the transportation system won the West.

Beginning May 2 when the new Cal nia State Railroad Museum opens doors in Sacramento, you can see o the world's finest collections of vin steam locomotives and rail cars

NORMAN E. PLATT

Brick façade *of railroad museum includes roundhouse with turntable so engines, cars can be moved in and out*

nbled under a single roof.

ars of research and painstaking resto-
ion have gone into this collection, and
) million has gone into building and
ipping the three-story museum com-
x in Old Sacramento State Historic
k. To celebrate the museum's open-
, Railfair '81 is planned to run May 2
ough 10, with perhaps 20 other his-
ic steam locomotives arriving from
oss the U.S., Canada, and England.

stalgia on a grand scale

museum is much more than a lineup
silent machines: it interprets railroad
ory and its cultural impact on Cali-
nia and the West—and it does this on
ttingly grand scale.

enty-one pieces of rolling stock,
ing from 1862 to 1954, occupy more
n 100,000 square feet of display
ce. Twenty-four feet above the mu-
m floor, a Nevada Short Line loco-
tive leads a narrow-gauge freight train
oss a trestle bridge.

2-minute film shown in twin 145-seat
aters will introduce you to it all. Then
screen rises to reveal a rugged Sierra
rama in which the *Governor Stanford*
irst locomotive to run on the trans-
tinental railroad—seems ready to
r into a wooden snowshed.

museum also houses the only re-
ining cab-forward steam locomotive
million-pound behemoth.

t fancy but a prime mover in Califor-
s agricultural development is a 1924
efer" or refrigerator car; 300-pound ice blocks chilled the eastbound citrus. Railroad stations also rise inside. One striking façade replicates the mission-style station at Burlingame, California.

At other exhibits, you can watch a cutaway model of a locomotive at work and listen to such railroad-inspired songs as "Hobo Bill's Last Ride."

Since this is an interpretive museum, don't come expecting a train ride or many hands-on exhibits.

Workmen were furiously readying displays when we visited shortly before *Sunset's* press deadline, but museum officials promise a May 2 opening. Museum hours will be 10 to 10 daily through Labor Day (10 to 5 thereafter). Admission is $2 for adults, $1 for ages 6 through 17 and seniors.

Railfair Sacramento '81

Besides the visiting locomotives and rolling stock, nine-day Railfair '81 features a musical pageant titled "Song of the Iron Horse," which will be staged three times a day outside the museum's roundhouse; tickets cost $4 for adults, $3 for ages 6 through 17 and seniors. For details on all fair events, write or call Railfair, Box 2307, Sacramento 95811; (916) 442-7827.

Getting there, accommodations

Though Interstate 5 curves within a few feet of the museum, you might find it more appropriate to arrive by rail. From the San Francisco Bay Area, Amtrak trains arrive in Sacramento at midday; others arrive daily from California's San Joaquin Valley, Nevada, Utah, and Colorado. You could walk or take a taxi from the Amtrak station to the museum or several nearby hotels or motels.

See a travel agent for train reservations or consult your telephone directory for Amtrak information numbers. For lodging help, write to the Sacramento Convention & Visitors Bureau, 1100 14th St., Sacramento 95811; or call (916) 449-5291 Monday through Friday 8 to 5.

If you drive, interstate highways 5 and 80 lead to Sacramento. To reach the museum, follow I-5 to the signed Old Sacramento exit. You may be able to park along the streets of Old Sacramento, but spaces fill up fast with shoppers and restaurantgoers. There's a pay parking lot under I-5 adjoining the museum at the corner of Second and I streets. □

On the cover *of May 1938 Sunset: Virginia & Truckee Railway locomotive, the J. W. Bowker. Today it's on view in replica of a Central Pacific Railroad passenger station—a short stroll from new museum in Old Sacramento*

Why 1981 is a very good year for papayas

There is a new kind, more available. The 1981 crops are larger. The West gets first pick. And 1981 prices are better

This month through June and again in October and November, when papaya season reaches its peak, increased plantings of the fruit in Hawaii should pay off with an abundant supply in West Coast markets. Most will be the familiar golden-fleshed kind called Kapoho. But you may also find a rosy-fleshed newcomer known as Sunrise.

Compared with some other types of papaya, which grow as large as watermelons, Kapoho and Sunrise are pint-size. They are both strains of the Solo variety, whose name is meant to imply that the fruit is just the right amount for one person.

The Kapoho strain is named after the district south of Hilo on the island of Hawaii, where its production is concentrated. For years, it was the only papaya grown commercially in Hawaii and virtually the only one sold on the Mainland. It still accounts for about 85 percent of the market here.

Over the years, other strains of the small Solo variety have been developed. The most successful as a commercial crop is Sunrise, introduced in 1975, which has proved to be a heavier producer and more disease resistant than its popular cousin.

Judging by outside appearance, it's hard to tell the two papayas apart. Both are pear shaped, although Sunrise tends to be slightly more rounded. Both have green skin that matures to mostly golden yellow. Their inside cavity is filled with many small, soft, edible black seeds, which taste slightly peppery. Most weigh about 1 pound.

The major differences are flesh color, flavor, and firmness. Many long-time papaya fans like the stronger, more distinctive flavor and firmer flesh of Kapoho. Others find they prefer the milder fragrance, sweeter taste, and reddish-orange color of Sunrise. The new papaya is also juicier and less firm; as a result, it may have a slightly shorter shelf life.

Markets rarely display both kinds at once. And since they look so similar on the outside, it's hard to tell for sure which you're buying. Sunrise may be labeled strawberry or melon papaya; it's often marked with a red sticker. You might also check the grower's label on the box—Sunrise papayas are grown only on Kauai; Kapohos are grown primarily on the Big Island of Hawaii.

Choose fruit that is unbruised and shows some yellow color. At home, let fruit stand at room temperature until it gives slightly when gently pressed. The color will be two-thirds to fully yellow when ripe. Do not chill papayas before they are ripe; a low temperature can prevent them from ripening. After the fruit is mature, you can chill it three to seven days. It can be cut ahead without discoloring.

Nutrient-rich papayas are low in sodium and high in vitamins A and C and potassium. A whole one has about 119 calories, slightly more than a grapefruit.

Serving papaya: from breakfast to dessert

The classic way to serve papaya is to simply cut the fruit in half, remove the seeds, and serve the fruit with a squeeze of lime or lemon. The tartness of the citrus bring out papaya's distinctive flavor.

Papayas are delicious partners with meat or seafood. Peel and slice the fruit, then gently sauté it in butter to serve with ham and eggs for breakfast or as an accompaniment to fish. For a main-dish salad, fill papaya halves with shrimp and serve with a lime wedge. Or wrap papaya cubes with sliced ham for an appetizer.

For a salad, alternate papaya slices with orange or pineapple slices; drizzle with a dressing of 2 parts lime juice to 1 part honey, spiked with chopped fresh mint to taste. Or toss a green salad with papaya, avocado, and cucumber; for an unusual dressing, combine 1 cup vinaigrette dressing with 2 or 3 tablespoons papaya seeds and whirl in a blender un smooth. Sprinkle salad with a few see for garnish.

For dessert, fill papaya halves with lim lemon, or orange sherbet.

Here are four other ideas to try:

Coriander Papaya Salad

Serve this coriander-spiked salad wi barbecued meats or as a prelude to Mexican dinner.

Peel and seed 1 papaya, then cut in bit size chunks. Cut off peel and white pi from 2 medium-size oranges. Cut b tween membranes and lift out oran segments. Thinly slice 1 medium-si cucumber, peeled if desired. In a m dium-size bowl, combine the papay orange, and cucumber.

Stir together ¼ cup salad oil, 2 tabl spoons lime juice, ¼ teaspoon sugar, 1 teaspoon salt, 3 to 4 tablespoons cann diced green chilies (optional), 2 tabl spoons chopped fresh coriander (cila tro), and 1 green onion, thinly slice Pour over papaya mixture; toss gentl Cover and chill 30 minutes to 1 hou Serve on lettuce leaves, if desired. Mak 4 to 6 servings.

Papaya and Avocado Chicken Salad

In this main-dish salad, slices of avoca and papaya crown shredded chick that's coated with a yogurt dressing.

Mix together 1 cup unflavored yogu ¼ cup Major Grey chutney (fine chopped), 1 tablespoon lemon juice, 1 teaspoon salt, and a dash of cayenn Mix ¾ cup of the yogurt dressing wi 3 cups shredded cold cooked chicken.

Line 4 individual salad plates with butt lettuce leaves, then mound each wi equal amounts of chicken mixture. Pe seed, and slice 1 papaya and 1 avocad Arrange papaya and avocado slices ov chicken, spoon remaining dressing ov top, and garnish with toasted sliced monds. Makes 4 servings.

DARROW M. WATT

Sunrise or Kapoho? *Both Solo strains have greenish yellow skin and pear shape, but inside, Kapoho is golden and Sunrise orange*

Glazed Papaya Quarters

Coated with a spicy glaze, baked papaya quarters are a succulent counterpoint to ham or pork roast.

In a small pan, combine ¼ cup butter or margarine, 1 teaspoon *each* ground ginger and ground coriander, and ¼ teaspoon curry powder; cook over low heat until bubbly. Stir in 2 tablespoons *each* honey and lime juice.

Cut 2 papayas (unpeeled) lengthwise in quarters; remove seeds. Set in a baking pan, cut side up, or bake alongside a ham or pork roast. Brush butter mixture over the fruit.

Bake in a 325° oven, basting occasionally, about 25 minutes or until hot. Pour any remaining mixture into papaya cavities, then serve with meat. Serves 8.

Papaya Coconut Dip

For a casual dessert, spear chunks of papaya with a fork, then dip into sour cream sauce and coconut.

Place 1 cup shredded coconut in a frying pan and stir over low heat until toasted, 5 to 8 minutes. Let cool. Stir together 1 cup sour cream, 1½ teaspoons grated orange peel, 1 tablespoon orange juice, and 1½ tablespoons minced candied ginger. Cover and chill at least 1 hour.

Peel and seed 1 papaya, then cut it into bite-size chunks. Place papaya, coconut, and cream mixture in separate containers. To eat dip papaya into cream mixture, then into coconut. Serves 6. □

MICHAEL THOMPSON

Traditional tapestry: *herbal knot garden nestles between lawn and rose bower. Oval of dwarf gray sage encloses English and dark purple 'Hidcote' lavenders. Rimming brick walk are golden sage, woolly thyme, more lavender, golden oregano, lamb's ears, yarrows, sage*

Herb ring around

Also a lively herb border. Two Oregon innovators share herb ideas for kitchen and for decoration

eeform style: *green and gray santolina plants bear a profusion of 'e lemon and golden buttons all summer. Purple spikes are veronica*

Dried autumn bouquet: *golds include both the santolinas, costmary, yarrow; brown hues are seed stalks of French sorrel, dock*

Subtle color, flavor: *nasturtium blossom, thyme, red wine thyme, burnet vinegars—all easy, inexpensive to make*

ngent smells and pleasing flavors—it's how most people think of herbs. t as you see here, they can also be orful, combining beauty with practi- ity as few other plants can.

these pages, you see what two friends doing with herbs—in the garden, in kitchen, and elsewhere in the house.

ur years ago, Gretchen Hall and Linda wers planted the 13- by 21-foot knot den shown on the facing page in em, Oregon. The design comes from a ll family sampler. Unlike classic knot dens, herbs here are pruned in soft ves, retaining their natural mounding ape, but reducing pruning needs. In the Bowers garden, they planted the more casual, even easier-to-maintain border pictured above.

If you'd like to join the fun, now is the time to start. The chart on page 277 suggests 20 choices from more than 200 herbs in the two gardens. Planted in the ground now (or after last frosts for annuals), herbs should be big enough in one

Edible surprises: *flame-colored nasturtiums, burnet, blue borage, ferny-leafed sweet cicely, parsley, and sorrel garnish platter of familiar vegetables for dunking in herbal dips (for recipes, see page 204)*

MICHAEL THOMPSON

Garage rafters bloom *with bunches of air-drying herbs—different kinds of oregano, yarrow, lavender. Horizontal screens hold fleshier leaves and petals*

To strip stems quickly: *rub sprigs of dried lavender over ¼-inch-mesh hardware cloth tacked to wooden frame*

W. D. A. STEPHENS

Pinch pots, *fresh and dried, by the stove: "I just smell what's cooking and snip or crumble in what seems to go with it"*

to six weeks to let you cut small snippets. By mid- to late summer, most should yield large harvests.

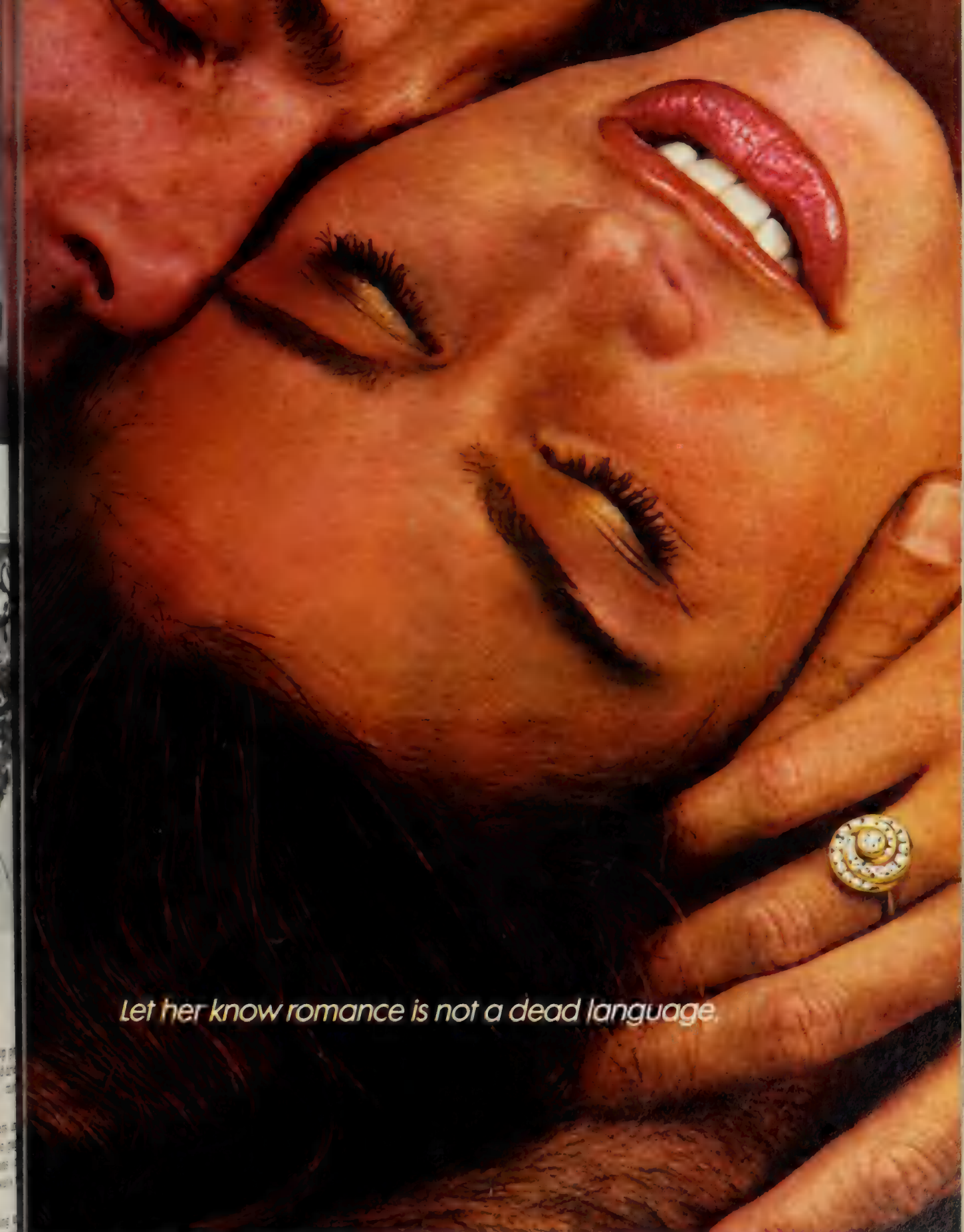
You shape and groom herbs as you harvest—all year in mild-winter climates, as long as leaves are green and growing in cold-winter areas. To strip fresh or dried leaves from firm or woody stems, hold the stem tip with one hand and draw fingers of the other hand toward the stem base. Mince leaves with a knife or kitchen scissors, or whirl small amounts in a blender. Add to foods before or during cooking, or at the table. Fresh herbs are about half the strength of dried ones, so you can experiment without much risk. A nibble or sniff will tell you what and how much to use.

When you want large amounts to make vinegar or to dry, the best time to cut is just as flower buds form, shearing off 3- to 15-inch-long stems over the entire plant. Cut early in the day, after any moisture on leaves has dried.

Heaviest production comes in late June or July and again in August or September. One plant can yield an armload. A garden the size of either the Hall or Bowers plot easily supplies more than one family's needs. In seconds you can pick a nosegay for a friend's soup pot, salad, or vase. Elegant vinegars and dried bouquets take surprisingly little more time and effort.

If you'd like to sample the Bowers and Hall touch in the kitchen, turn to page 204 for recipes. For suggestions on which herbs to grow and more ways to use them, see page 276.

But the rewards of herb gardening are not merely practical. As Gretchen Hall says, "My favorite time is just before dusk, when the air is calm. I love to stroll or sit in the garden and just smell the aromas that float through the air." □



piece shown (enlarged for detail) is available for about $2,250. The price may change substantially due to differences in diamond quality and rket conditions. Your jeweler can show you other diamond gifts starting at about $450.

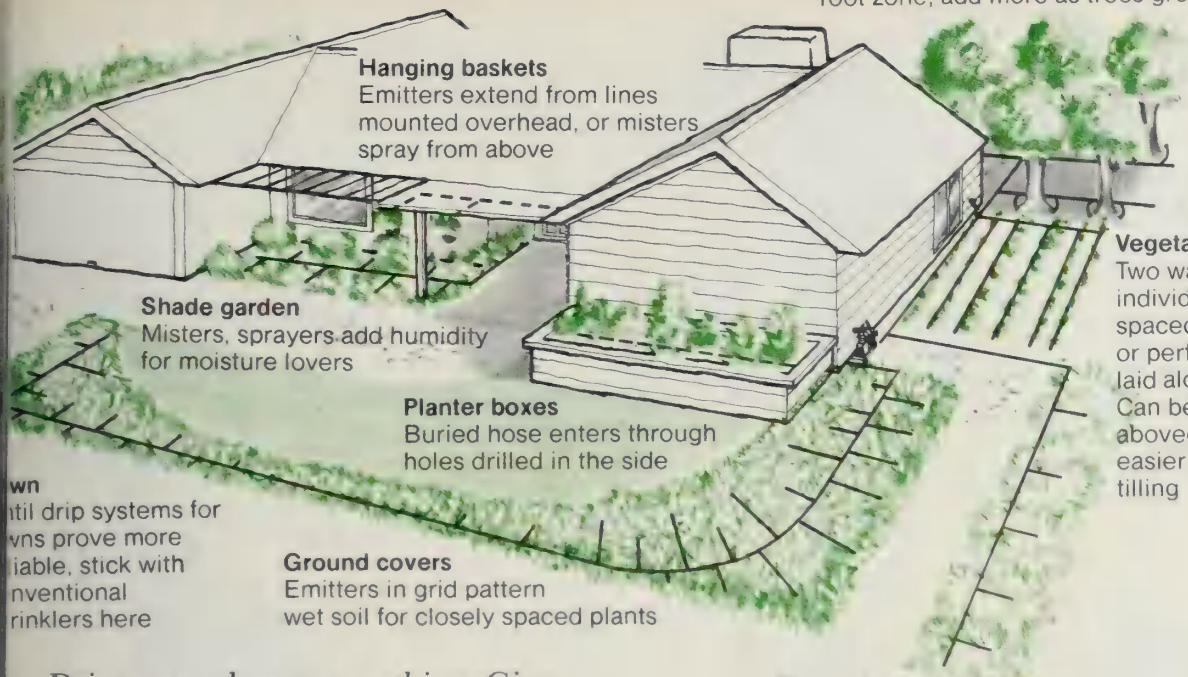
A diamond is forever. De Beers

It's a charming old Danish custom: to tile kitchen walls and working surfaces in a multitude of unmatched patterns. That's the spirit and flavor of designer Nils Refsgaard's Bistro Dinnerware. On gleaming white porcelain, in traditional colors—cool sea-blue and warm earth-brown—he offers distinctive borders to mix and match in endless combinations. Any way you cross them, they counterpoint and complement each other in the most agreeable way. And all the gracious accessories—sugar bowls, creamers, casseroles, beverage servers, candelabrum and hurricane lamps—are judiciously designed in a classic striped pattern that is compatible with all. For a free catalog of the complete Bistro collection, write: Dansk International Designs, Dept. F, Mt. Kisco, N.Y. 10549.

THESE BORDERS ARE MEANT TO BE CROSSED

DANSK

Dansk International Designs



Drip-water almost everything. Give some plants more water, some less. Put basic system out of sight. Bury it

Drip . . . its time has come

"Drip" means low-volume irrigation, a revolution in garden watering technology. The arid West needs it

ilor-made for Western living, drip ir-ation is economical, water-saving, or-saving, and surprisingly simple to e. The idea isn't new, but bolstering rising interest are the steady improve-ent and convenience of today's sys-ns, backed by the reality of the limited pply and rising cost of water.

what amounts to a garden-watering volution, this new technology may well an everyday, practical part of garden-g in the '80s.

nce *Sunset* first reported drip for home rdens in July 1975, what was called ip, trickle, or ooze has grown to in-ude misting, spraying, and sprinkling. nder the new banner of low-volume igation, you'll find a wide assortment of parts and equipment that allow you to construct a versatile system for watering nearly all the plants in your garden.

Here, in the first presentation of its kind, we show you how to put drip irrigation to work in your garden. The following seven pages discuss the basic equipment, how to install it, and some of the options. We include several important precautions and routine maintenance procedures to follow.

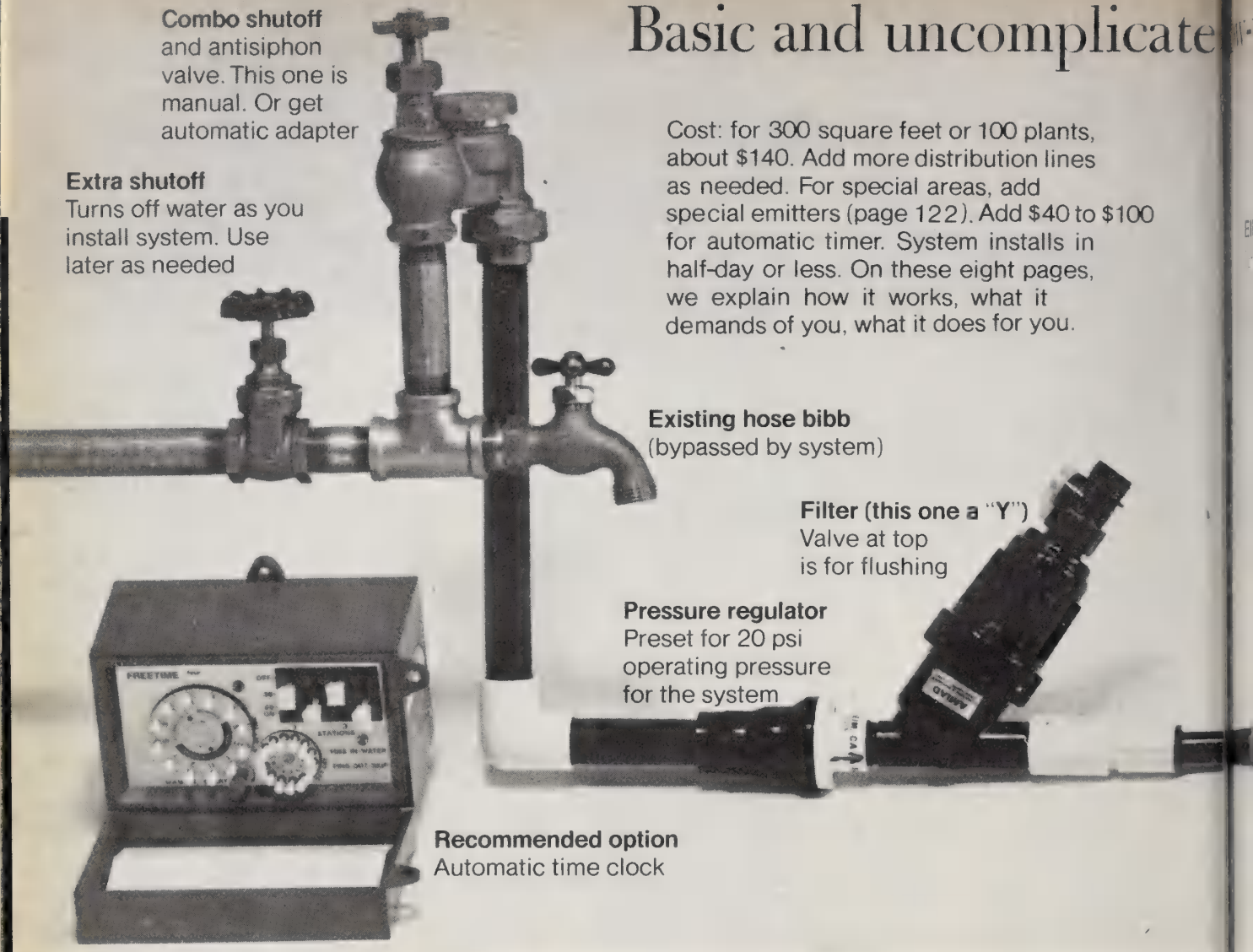
Examples of the variety of drip systems now operating in Western gardens will be featured in future issues of *Sunset*. They will show how to tailor drip irrigation to particular planting situations: ground covers, vegetable gardens, containers.

By popular definition, drip irrigation is the frequent, slow application of water to the soil—generally through small mechanical devices called emitters, which help control the flow of water and release it at a very low rate. Only a small key area of soil is wetted. Little or no water is lost to evaporation, and surface runoff and sprinkler overshoot are no longer water thieves.

All these savings can cut garden water use by 30 to 50 percent—and garden water use accounts for about half of the typical home water bill.

With drip, plants grow better since they aren't stressed by the too-wet, too-dry cycle of most other watering methods. Foliage diseases caused by wetted leaves

Basic and uncomplicate



Cost: for 300 square feet or 100 plants, about $140. Add more distribution lines as needed. For special areas, add special emitters (page 122). Add $40 to $100 for automatic timer. System installs in half-day or less. On these eight pages, we explain how it works, what it demands of you, what it does for you.

are reduced. In unwatered soil between plants, there are fewer weeds to pull.

And on slopes, drip watering reduces erosion, since the water percolates slowly, even into adobe or rocky soils.

What are the parts of a drip system?

With good design, installation, and maintenance, a permanent drip system can be just as trouble-free as an underground sprinkler system. Installing one costs about the same.

Above you see the typical components of a permanent system. A temporary system, or one installed only for a small planting area, generally has a simpler hookup, but otherwise it's similar.

The system consists of three main parts: *basic controls, polyethylene hose,* and *emitters and extension tubes* that plug into the lines to carry a controlled quantity of water to the soil.

The basic controls include the shutoff valve, pressure regulator, and filter. In the kind of permanent system shown here, the manual on-off valve is combined with an antisiphon valve required by public health codes.

A pressure regulator reduces the water pressure from the 50 to 90 pounds per square inch (psi) in most household water lines to the low 5 to 30 psi needed for most drip systems. It also helps keep pressure constant in the system when normal fluctuations occur in outside water lines, assuring a measured flow of water through the emitters.

Some pressure regulators are preset for a standard pressure, others are adjustable. Small systems sometimes use a changeable flow control washer in place of a regulator.

The filter screens out sediment and other particles in the water that could plug small openings in the emitters. (Even clean municipal water can vary seasonally, and water mains all too often are rusty and flaky.) Filters come in different shapes and capacities. Two common kinds are an inexpensive cylindrical filter (see it on page 123) and a larger Y-shaped style (like the one above) that's easier to flush and clean.

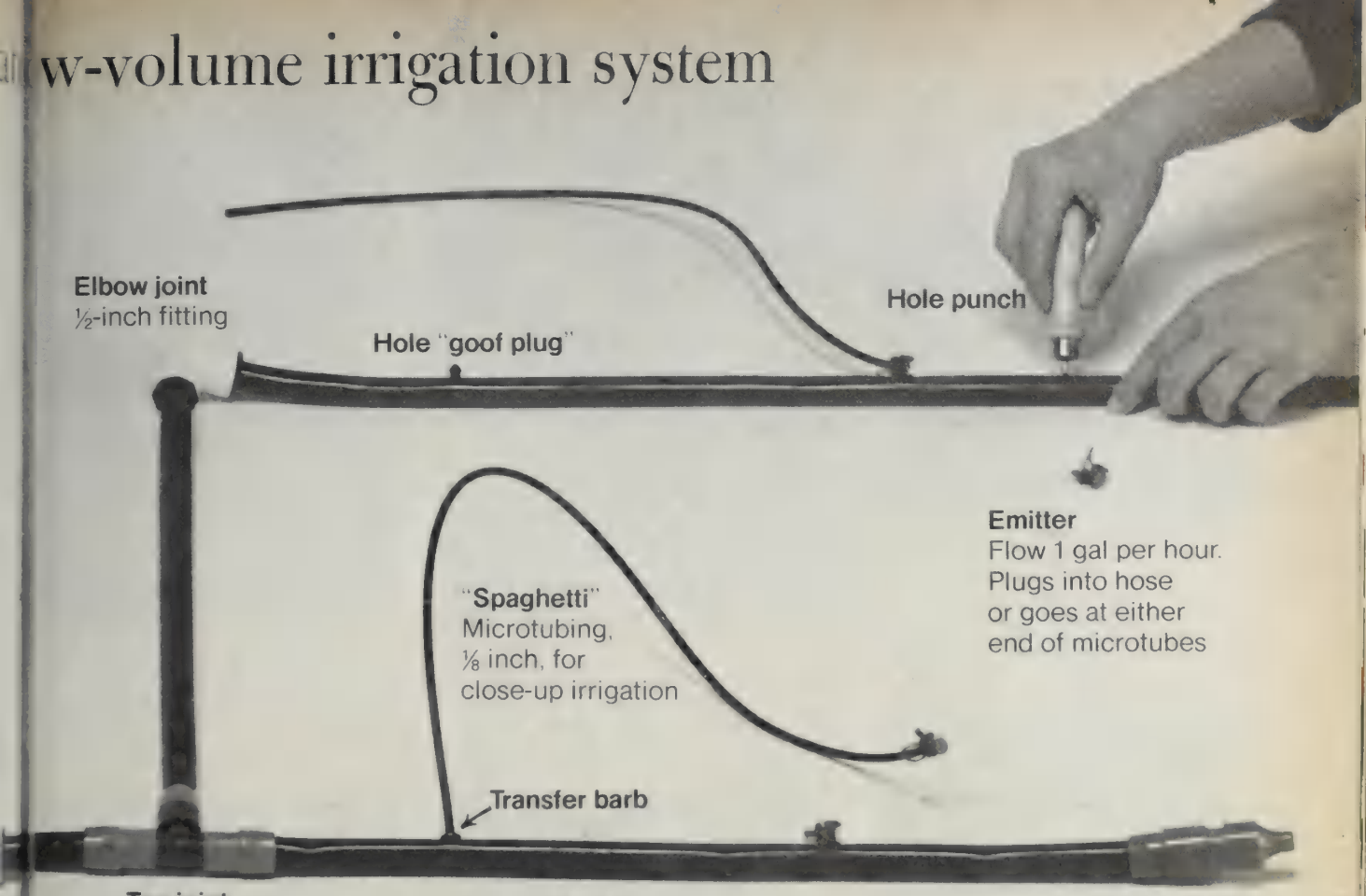
The pressure regulator and filter aren't necessarily expensive: you can get both for as little as $12 to $15.

Because drip operates frequently or for long periods of time, an automatic timer of some kind is a trouble-saver and time-saver. With an adapter that connects to an electric time clock, you can easily convert a manual valve to automatic. Or let a battery-operated timer, a water-activated timer, or an automatic moisture sensor do the job.

Polyethylene hose. Because drip systems operate at low pressure, the piping can be lighter in weight, more flexible, and less expensive than standard polyvinyl chloride (PVC) pipe. Drip hose is made of black polyethylene (shortened to "poly" or "PE hose" in plumbing jargon). Of the different sizes sold, ⅜- and ½-inch-diameter hose are most common. Sections are joined by fittings that require no cement or special tools.

Small-bore polyethylene tubing is called microtubing, spaghetti, transfer tubing,

w-volume irrigation system



NORMAN A. PLATE

: extension tubing; ⅛- and ¼-inch-iameter sizes are the ones typically used) divert water from the larger laterals.

mitters come in many shapes and sizes, ith various internal mechanisms. More ıan 50 different kinds are made, but all) essentially the same job: they slow ıe flow of water from the line and dis-ense it drop by drop to the soil. Emit-rs have rated capacities set by the ıanufacturer, so that at specified oper-ting pressures—usually 10 to 20 psi—ıey deliver so many gallons of water er hour (gph). Ones with a rated flow f 1 gph are standard, but emitters also ome in ½-, 2-, 3-, and 4-gph versions.

or most purposes, you'll choose a regu-ır ("non-pressure-compensating") emit-er like the one shown above and use it ıroughout the system. It's simple, reli-ble, and inexpensive.

he possibilities expand when you con-der other sorts of emitters, drip tubing, nd various kinds of mist or spray at-ıchments. Pages 121 to 123 review ıese options.

Designing and installing a system

Assembling a drip system is fairly easy and seldom takes more than a few hours.

It's a good idea to start with a fairly detailed plan, so you'll know the amounts of equipment you need to buy. On grid paper, draw your house and garden with a scale of 1 inch to 8 or 10 feet. Locate buildings, walkways, patios, faucets or other water sources, and the kinds and sizes of plants you need to water. Mark slopes with a downward arrow and note elevation changes. Also note what kind of soil you have: is it porous, sandy soil, medium-textured loam, or moisture-holding clay?

On the drawing, sketch where the drip lines will run. Use this to assemble a parts list of fittings, emitters, hose, and basic controls. Use the chart on page 122 as a guide to figure the number and kinds of emitters you need.

Check the capacity of the system (in gph) by simply measuring water flow from the faucet. The picture on the following page shows how. (First turn off all faucets in the house.) Most home water lines deliver more than enough water (typically 300 to 600 gph) to supply the average drip system.

For a large installation, tally up the total number of gallons the emitters will use: this amount shouldn't be more than 75 percent of the water flow measured at the faucet. If you need more, divide the

One thing some drip discoverers like is its Tinker-Toy quality

Putting in the drip system in 8 steps

1 · *Start with a plan. Measure and draw on it your house, walks, drives, water outlets. Note the sizes and kinds of plants. This helps figure the parts you'll need*

2 · *Measure amount of water you have to work with. Time how long it takes bucket to fill with 1 gallon of water; multiply for gallons-per-hour flow*

3 · *Assemble control head. Regulato and filter can sit below grade, antisiphon valve must be at least 6 to 12 inches above ground*

GLENN CHRISTIANSEN

5 · *Lay out and attach lateral lines. Cut hose with garden shears. This type of fitting has internal barb that holds tubing snugly without cement*

6 · *After all lines are assembled, run water through for several minutes to flush out any dirt in the system. Attach caps to the ends of all lines*

7 · *Punch holes in polyethylene hose, insert emitters (or transfer barbs). Cut and fit microtubing to extend from emitters to plants*

system into two or more sets with separate valves. Also make separate lines for plants such as vegetables that are watered on a different schedule from the rest of the garden.

Some suppliers want to know the water pressure. Ask the water company or measure the actual working pressure with a gauge attached to the turned-on faucet.

More suggestions: Buy the same brand of hole punch, goof plugs, transfer barbs, and even microtubing, as emitters (different makes aren't necessarily interchangeable). Polyethylene hose is not standardized either: the actual diameter of one make of ½-inch hose may differ from another. If you go to buy more, carry a piece with you.

You can bury the lines, cover them with mulch, or lay them on the ground. (Some emitters can't be buried, though; check manufacturers' specifications.) Locate filters and hose ends so they're easy to flush.

Poly hose is much easier to unroll if you leave it in the hot sun for an hour to soften before you lay out the lines. If

DRIP REALITIES

You reduce water pressure 50 psi to 20 p

It's point watering

Clean water. You filter, sometimes flush

Connect polyethylene hose and lay out main lines in shallow, 2- to 4-inch-deep trenches. (Soften hose in the sun beforehand)

Assemble the rest of emitters. Flush lines again. Operate system to see all emitters work, then cover all lines, leaving only ends of microtubes above ground

ater is measured,
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aky tubes
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rinklers

hose ends are hard to push into the fittings, dip them in hot water for a few seconds.

Operating the system

Simple, routine maintenance is the key to success. At first, check frequently, following the procedures at right. If you notice little buildup of debris in the filter screen, you may need to do these jobs only two or three times a year.

Drip hose can be damaged by garden tools or digging animals, but it's easy to repair with slip-on couplings. Lay lateral lines to one side of a planting bed, next to the header board, or flag the lines to help you remember where they run. Flexible black PVC hose (more expensive than polyethylene hose, but not as tasty) seems to discourage gophers and other curious chewers.

In cold-winter climates, drain the lines and shut off the system for the winter; protect the control head from freezing.

If you garden where water-borne salts are a problem, you may need to water more frequently and for longer periods of time, or flood occasionally to leach salts beyond the root zone. Don't spray-mist foliage. A bark mulch helps reduce evaporation and lessens the precipitation of salts at the surface. Your water company or county extension agent can give you further advice.

You can fertilize through a drip system, but provide adequate backflow protection—that's essential whenever you introduce materials that could contaminate the domestic water supply. (Check with the building inspector or public health department for needed safeguards.)

Some kinds of filters can be used for fertilizing, or you can add code-approved mixer-proportioners to the system. Follow manufacturer's instructions and use only liquid or completely water-soluble products. To avoid leaving any residue, run water through the system long enough (about an hour) to expel all fertilizer solution from the lines.

What are the different kinds of emitters?

The chart on the next page demonstrates how one basic emitter—and perhaps a few options—can service a whole garden. Or you can take advantage of the tremendous variety of emitters and attachments to customize a drip system to your own garden needs.

The pictures on pages 122 and 123 show a sampling of the choices. Generally, they fall into three categories:

Emitters or drippers are the most familiar. Most are small, fairly simple devices, built with a barb at one end that snaps into the water hose and a spout or hole at the other that accepts microtubing. Some have adjustable flow rates, some are self-flushing, and some can be shut off when not in use; others have grooves

Work you *must* do. Maintenance

Flush the lines. *Open end caps and let water run freely for 2 to 5 minutes to wash accumulated sediment out of the lines. If water is fairly clean, flush the lines every four to six months. Also flush after long disuse*

Remove *filter elements and wash under running water; replace if torn or damaged. Small filters like this may need monthly cleaning; the "Y" filter pictured on opposite page (#3) flushes in place, needs less frequent attention*

Check emitters *after the first week, then every few months, to see they are working smoothly. Look for their usual wetting pattern, or let water flow on your hand. With water on, clean any that are plugged—or pull out and replace*

Whether shaped *like a button, plug, or spigot, basic emitters like these have barbed ends to plug into the line, deliver water at ½ to 4 gph*

Your basic system can do everything. But you have many emitter options for special needs

that fit holders or stakes.

In-line emitters, like the one pictured on the facing page, fit inside the hose so they're not quite as adaptable. They're convenient to use in uniform plantings such as hedges, screens, ground covers, and vegetables.

Where you need more than one outlet per plant, you can plug in several emitters to water it, or place a multiexit emitter on the line and add microtubing outlets as you need them. Where lines run on steep slopes or hilly terrain, you may need a pressure-compensating emitter. This type gives steady flow even though in-line water pressure may vary between 15 and 50 psi.

Perforated, or drip, tubing is made especially for watering row crops. It may be single-, double-, or triple-walled with holes preset at 12, 18, or 24 inches, or a porous plastic tubing that exudes water all along its length. Most work like regular garden soaker hoses, but operate at very low pressure—usually 5 to 10 psi—so that water leaks slowly out of them. Drip tubing is short-lived (1 to 5 years), and inexpensive (5 to 10 cents a foot).

Most kinds deliver 2 to 6 gallons of water per hour for every 10 feet of tubing. They are laid above or below ground: to till the soil, flip the lines to one side. Flush the tubes periodically, as you do other drip lines.

Misters, microsprayers, and minispr klers add an extra dimension to d systems. They're essentially low-volu versions of sprinkler irrigation fixtu which put out only 7 gallons of wa in an hour, for example, instead of 1 You can get them in different spray p terns and flow rates that vary from 3 more than 40 gph.

Some of these attachments operate the same pressure as drip emitters; o ers require a higher water pressure work well and may need to be run o separate line. If you want to plug th into your drip system, check manuf turers' specifications to be sure that working pressures are compatible.

How many emitters (and what size) for different situations

Drip targets	What kind of emitter? How many? Where?
LOW SHRUBS 2 to 3 feet tall	One or two 1-gph emitters, placed 6 to 12 inches from base of plant
SHRUBS, TREES to 5 feet tall	Two or three 1-gph emitters placed a foot away
SHRUBS, TREES 5 to 10 feet tall	Three or four 1-gph emitters (or one or two 2-gph emitters) equally spaced around the plant, 1½ to 2 feet from trunk
TREES 10 to 20 feet tall	Four to six 1-gph emitters (or two or three 2-gph emitters) equally spaced 2 to 3 feet from tru
TREES over 20 feet tall	Six to twelve 1-gph emitters (or three to six 2-gph emitters) equally spaced about 4 to 8 feet from trunk
GROUND COVERS, FLOWERS	Enough 1-gph emitters laid in a grid to make 100 percent wetted area: —for light sandy soil, space 2 to 2½ feet apart —for medium loam, space 3 feet apart —for heavy clay soil, space 4 feet apart Or use perforated tubing laid in parallel rows
VEGETABLE GARDENS	
Row crops	Use ½- or 1-gph emitters closely spaced (as for ground covers above) on a line or perforated tubing with holes 12 to 18 inches apart
Widely spaced plants (squash, tomatoes)	One to four 1-gph emitters at each plant
POTTED PLANTS	Use ½- or 1-gph emitters (depending on size of container) on extension tubes, or overhead mister turned on more frequently for short periods

Use this chart only as a guide, keeping in mind different plant needs, growing conditions, and watering times. Most manufacturers base emitter flow rates, expressed in gallons per hour (gph), on a working pressure of 15 to 20 pounds per square inch (psi). At higher water pressures, the actual flow increases accordingly.

essure-compensating *emitters make up changes in elevation along water line*

Multi-exit *emitters let you add up to six outlets as plants grow*

NORMAN A. PLATE

Cylindrical *in-line emitters fit right into polyethylene supply hose*

icro-spray heads *screw into hose stand-up extension tube, come various spray fans (90°, 180°, 360°)*

Misters *plug into hose or stake fittings. Some have shutoff feature; others have twin nozzles and can convert to drip*

Mini-sprinklers *like this one wet a 12-foot-wide circle. Some have changeable nozzles for different widths*

ow often to water? How long?

ne idea behind drip watering is to ve plants a low-volume, steady supply moisture in frequent—even daily—ses. You'll need to experiment to es-blish the right schedule for your plants d growing conditions. Many manufac-rers provide charts to guide you.

ow much water you actually need to ply, and how often, depends on the il, the weather (is it hot and dry or cool d moist?), and the requirements of ur plants. Soil is an important factor: ater spreads less and drains faster in rous, sandy soil than in moisture-lding clay.

eeping these variables in mind, a gar-ner in Los Angeles, for example, may ed to water for 40 minutes every her day during the summer, a San rancisco gardener may turn the system for only 10 minutes a day, while in ucson, a system may have to run for veral hours to do the job.

hile you're getting accustomed to the stem, it's good practice to watch your ants and check the soil occasionally to e how wet or dry it is. Dig a narrow le at least a foot deep within the root ne, or use a soil auger or moisture eter to help you get a good reading.

on't overwater. Remember that the oisture you see on the surface of the ground is like the tip of an iceberg: you don't see the full diameter and depth of the wet area below. Instead of saturating the soil, the object is to keep it constantly spongy-moist.

Established trees that have been watered by other methods need to adjust to a drip-watering regime. Installing a system in winter or early spring gives them time to develop new feeder roots before hot weather arrives. If you convert to drip in midsummer, provide supplemental watering by the old method.

GLENN CHRISTIANSEN

Perforated tubes *water rows, working like low-flow soaker hoses. Simple hose-bibb hookup includes anti-siphon device (with built-in pressure reducer) and filter*

Parts, kits, components: where do you buy them?

Many suppliers who have traditionally sold sprinkler parts now stock drip equipment as well. In the yellow pages under Irrigation Equipment, Sprinklers,

or Farm Supplies, you may find dealers who sell chiefly to contractors or farmers, but will also sell in smaller quantities to homeowners. They are equipped to offer practical advice as well as plumbing hardware and a choice of several drip manufacturers' products. Some offer homeowners a 10 to 20 percent discount. A few give drip irrigation clinics for their customers.

Do your homework first: take in a plan and the information mentioned in the installation section of this article, page 118.

Boxed kits or prepackaged components are often sold in nurseries, garden centers, and hardware and building supply stores. These vary in design and usefulness, but for the most part, they're convenient, easy to assemble, and perform very well when properly installed.

You may want to shop around for the best system for your needs. Some are packaged specifically for watering just a vegetable garden or a few containers. Others contain all the parts you'll need to assemble a complete garden watering system.

Most manufacturers of packaged systems try to save you money and trouble by simplifying the basic filter, pressure regulator, or backflow prevention devices needed. Read the fine print and get the more sophisticated components if you have high water pressure or questionable water quality, or if you're putting in a large, permanent system.

Where to go for help

If you'd like assistance in designing a drip system, an irrigation or plumbing supply store that sells the equipment will usually help. It can also recommend an experienced professional to design and install a whole system. Or look in the yellow pages under Sprinkler Installation, Landscape Design, Landscape Contractors, or Landscape Architects.

Agricultural extension offices in most Western states have information on drip irrigation for home gardens; write or call for their handouts. If you'd like a list of manufacturers and suppliers that sell by mail, send a stamped, self-addressed envelope to Drip Irrigation Editor, *Sunset Magazine*, Menlo Park, Calif. 94025. □

The revolution in irrigation hardware has only begun. More news will come in future *Sunsets*

GLENN CHRISTIANSEN

Snaking drip lines *are a common sight in Israel. Landscape supervisor Moshe Gill guides Sunset editor Carol Malcolm through bougainvillea planting at the Orde Wingate Institute near Tel Aviv*

We study drip in Israel, 1979 and 1980

Drip network *underlies verbena and pittosporum border. Lawn (below) has it just under the surface*

To look at low-volume irrigation, *Sunset* editors went twice to Israel. Why? Because it and the summer-dry West share a similar geography, climate, and need for water economy. Israel has been using drip for more than two decades, and we wanted to look and learn for ourselves.

Western farmers and engineers have benefited from Israeli examples. When drip was first installed in experimental fields in California and Arizona in the early 1970s, the equipment and techniques came chiefly from Israeli sources. American manufacturers market several Israeli-designed parts, such as drippers, filters, and mini-sprinklers. See page 123 for a close-up look at the in-line drippers shown here.

But what about drip in gardens? We visited public parks and small-to-large gardens from the hot, arid south of the country to the temperate, rainier north, with climates similar to those of San Diego, the San Francisco Bay Area, and the Central and Imperial valleys, as well as Phoenix and Tucson. We talked to amateur gardeners, professional groundskeepers, horticulturists, engineers, *kibbutzniks*, landscape architects, and university faculty. We saw things that are, or could soon be, reality for us.

This article reflects some of this research. Future ones will examine related subjects—such as drip-watered lawns—based on Israeli examples.

A CLASSIC IS ORIGINAL NO MATTER HOW OFTEN IT'S IMITATED.

The Ming jar.

The Bentwood rocker.

The Tiffany lamp.

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Closed up: *eight doors form two walls of living and dining rooms. Doors slide, push out, and fold along track to stack at ends, as pictured above and at right*

Doors fold back and dining room moves outdoors

In Japanese houses, shoji walls can be removed on warm days, making indoors and outdoors one uninterrupted space.

The main living areas of this hillside house enjoy the same flexibility. Glass doors fold, swing out, and stack aside so the indoors extends to the limits of a wraparound deck (making this level of the house look larger than its 800 square feet). There's an unobstructed view across a tree-filled ravine, and summer breezes waft indoors to cool the entire house.

The cantilevered roof projection is supported at one end by a wall and on the two open sides by a system of trusses. Their vertical and sloping members are pressure-treated pine logs bolted to the header beam; each sloping log was split length-

Mayflower means getting me out of my old apartment near the Atlantic and into my new one on the Pacific.

DARROW M. WATT

Doors open: *deck extends dining and living areas outward into trees*

There's no *corner post to obstruct view from kitchen and dining area across the ravine*

wise, then bolted together on its outside end with a horizontal Douglas fir 3 by 4 sandwiched between the halves.

For strength, a long metal strip was attached to the header and nailed to the top of each sloping log; it continues back to the first two ceiling joists. The roof is double-pane glass.

The eight hinged doors—six across and two at the side—have fir frames joined with lag screws; silicone caulk seals the glass into the frames. The doors slide on aluminum tracks above and below. Each pair of doors has wheels at the outside corners, allowing them to fold outward as in the smaller photograph on opposite page.

Al Klyce of Mill Valley, California, designed the house. □

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DARROW M. WATT

Clerestory windows *above entry area bathe living room in daylight. Narrow Venetian blind on interior window allows additional light into bedroom while controlling view. Wedge-shaped space between ceiling and top of bedroom wall is paneled in glass*

STEVE W. MARL

Wall above fireplace *stops short of ceiling on both sides of flue, letting 11- by 14-foot living room borrow visual space from upstairs dressing hall behind it*

Open balcony *sits atop new projection. Soffit above front door holds recessed floodlights*

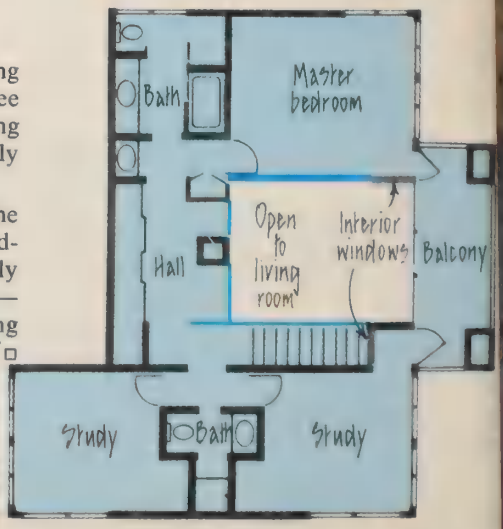
How space trading can work

"Lots of daylight with a feeling of spaciousness": that's what the owners of this previously cramped Pacific Palisades house wanted when they added a second floor. Architect Carl Day's solution? Let the living room and the new second floor trade off space, making each area seem larger than it actually is. He worked this several ways.

When the upstairs was added, the living room ceiling was lifted to the height of the new roof's peak. From an open balcony over the northwest-facing entry, three fixed clerestory windows, each nearly 7 feet tall, bring in daylight for the living room and some of the upstairs rooms to share (the master bedroom and an upstairs study have interior windows that face the living room).

In places, walls on two sides of the living room don't rise to full ceiling height (see plan at right), so the ceilings of living room and upstairs spaces are visually continuous.

The 7- by 17-foot balcony above the entry is accessible from both master bedroom and study. The owners can easily step outside to see how the weather is—or sit in canvas chairs to enjoy cooling afternoon breezes.



Plan *shows new second floor (color tone) in relation to existing living room. Colored lines are lower-than-ceiling walls. The remodel added about 1,100 square feet of floor space*

*Flamestitch includes products of 50% Dacron® polyester and 50% combed cotton

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a Point Pepperell

Sammy is climbing his new PVC trapezoid

Trapped inside on a rainy day, small children may start bouncing off the walls. To provide a safe outlet for such restless young energy, Larry Kolb of Oakland designed and built this portable climbing structure for his son, Sammy.

Made of ¾-inch schedule 40 PVC pipe, it is strong enough to support an adult. The project cost about $50 and required eight 10-foot lengths of pipe, a dozen T connectors, a dozen 90° elbows, two dozen cross fittings, and PVC glue.

The base measures 50 inches square. Sides consist of pairs of 20-inch-long rungs spaced 8 inches apart. They are joined to each other at the top two levels by horizontal spacers.

To make the structure easy to dismantle, only the sides are glued; ¾-inch machine screws hold the six horizontal end spacers to their corner stubs. □

PETER O. WHITELI

Trapezoid-ended *climbing structure stays indoors during winter, goes out in summer. A blanket over the frame makes it a playroom tepee*

New Orleans

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BILL ROSS

Oak ladder *brings upper cabinets within reach; climber's weight holds it steady*

Library ladder in the kitchen

Owner Tom Fat did not want a stepstool standing out in the way in this narrow corridor kitchen, so San Diego architect James Nicoloff installed an 8-foot library ladder.

At the top, paired brass rollers slide along a 1¼-inch-diameter rail. Behind the rail, a 1½-inch-wide spacer board keeps the top of the ladder from touching the cabinet door. Five-inch-long screws extend through the rail and board into the cabinet framing. Because the weight of the ladder rests firmly on rubber wheels, a climber can move it along the rail without getting down.

A few companies listed under Ladders in the yellow pages sell the library style; prices range from $250 to $425. □

Brass rollers *move ladder along rail screwed to cabinet frame*

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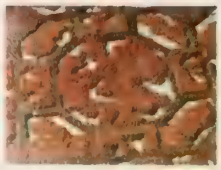
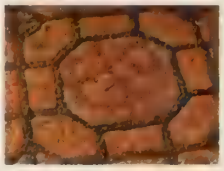


...gradually building up the design — color by color, shade by shade.



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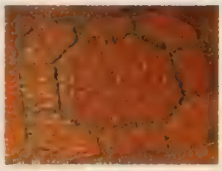

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SENTRY Hardware

Plant shelf hangs *from a high crosspiece that rests on window trim. Estimated cost of project: about $15*

Sunny plant perch

"I wanted floor space, but I also wanted to give my plants as much sun as possible." So Jim Sayers of San Francisco set about building this suspended plant shelf in the window bay of his Victorian living room.

Four 2 by 4's and a 1 by 12 form the unit. The top 2 by 4 was cut to span the distance between the window trim on which it rests. Two vertical 2-by-4 sections were notched (see below) to fit onto the top piece 18 inches from each end; they're attached from behind with 3-inch lag screws. The verticals extend down about 4 feet, where the 1 by 12 is attached (it extends about 8 inches beyond the verticals). A 2 by 4 centered under the 1 by 12 provides reinforcement; it's attached with two 6-inch lag screws that run through the 1 by 12 into the vertical pieces. ◻

Notched 2 by 4 *is attached from behind with lag screw*

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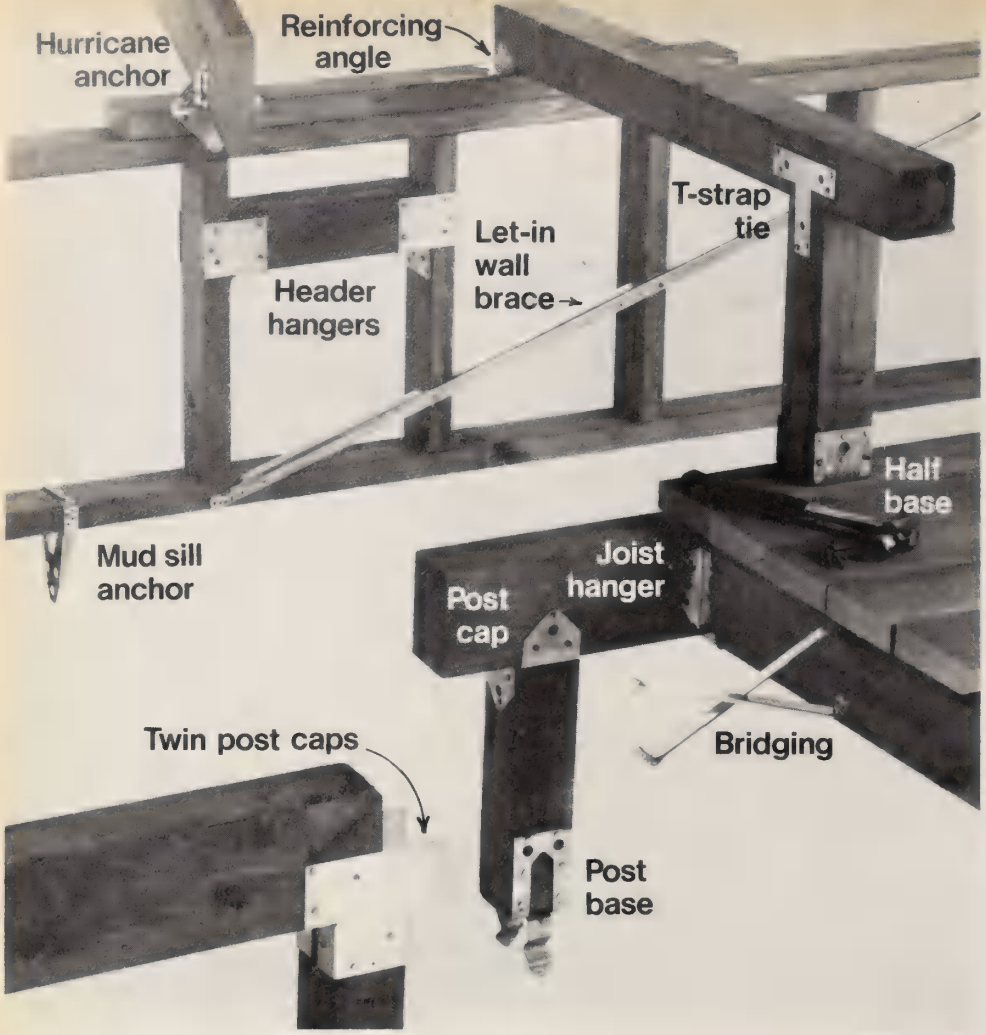

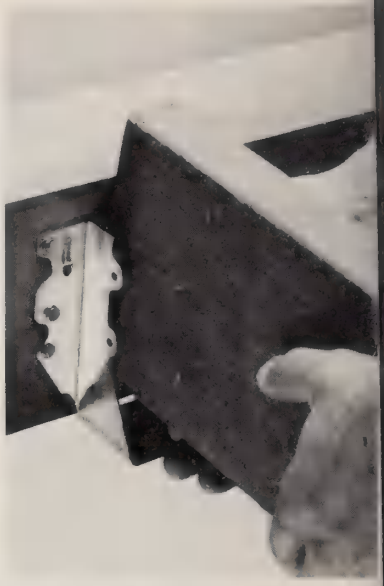

Framing model *shows some common metal connectors and their applications. Prices for the ones we show range from 30 cents to $3.50. Most use nails to fasten wood members together. The joist hanger (above) has a punched-in metal prong at top that bites into wood to hold the hanger in position for nailing*

NORMAN A. PLATE

Metal connectors give strength that simple nailing cannot

Bins of connectors *can be found at most lumberyards. Connectors are sized to rough-sawn or surfaced lumber*

Strong wood-to-wood connections are essential in framing any kind of building project—whether it's a patio deck, trellis, room addition, or garage. But no matter how experienced a carpenter you are, nails alone can't provide the structural strength that metal connectors provide. You'll find these shapes of lightweight galvanized sheet metal at almost every lumberyard, and you may be surprised at the range of jobs they perform.

To illustrate their varied uses, we built the model above; it shows some of the most common framing situations found in home building projects.

One advantage of connectors is that they allow you to drive nails across the wood's grain, instead of making difficult toe-nailed connections or nailing into weaker end grain. (Few things are more frustrating than watching an angled nail split the end of a long, expensive piece of lumber.) Connectors are designed to forgive the slight inaccuracies we all are prone to make—like cutting a board a fraction of an inch shorter than it's supposed to be.

Metal connectors hold wood elements together externally, but it is the nails that actually carry the loading forces into the wood itself. For maximum strength, follow the manufacturers' specifications and use the recommended nails. Special short (1½-inch) nails called joist hanger nails should be used when you are nailing into 2-by lumber. They have the shank thickness of larger nails, but are short enough that they won't go all the way through the wood. Connections made to larger boards (4-by and up)

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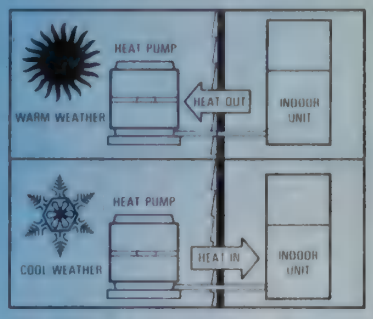

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NORMAN A. PLATE

Staircase angle *mounted to riser eliminates need for notching, saves time in building stairs to decks*

should be made with nails specified by the manufacturers; generally they require 3½-inch (16-penny) nails. (Use galvanized or stainless steel nails for outdoor applications.)

In areas where metal helpers might be exposed, you can paint them—but first wash the galvanized metal with vinegar.

The most common connectors

Though many more types of connectors exist, we limit our examples in the model to those used with 2-by and 4-by lumber. If you're going to use bigger beams or special concrete-to-wood connectors, consult with a mechanical engineer first.

Joist hangers. Probably the most familiar metal connectors, they make a secure butt joint between the joist and the load-carrying beam. Some joist hangers have prongs of metal that can be hammered into the side of the joist itself. The connection to a beam must be made with nails. Many professional framers like to first nail the hangers to load-carrying beams, then drop the joists into the U-shaped trough. Joist hangers come in sizes starting with those for 2 by 4's.

Post base. Though styles vary, the post base is generally used to anchor a load-bearing post to a concrete foundation. It can be attached to posts by either nails or bolts—you'll see prepunched holes for them in the sides. In areas where there is much standing water or rain, some people prefer to use an elevated post base that allows 1 to 3 inches of clearance above the concrete. To anchor a post to an existing patio, an adjustable post base can be attached with bolts into an expandable anchor plug. The half base shown in our model can secure a post to an existing deck (preferably over a load-bearing beam).

Post caps. Used at the top end of a post, these caps join posts to beams. Some accept either nails or bolts. The twin post caps shown at lower left of our model allow a splice connection to be made (as would a one-piece post cap with extended beam side plates). Heavier steel caps are available; they're often painted flat black and intended to be exposed.

Mud sill anchors. These are relatively new. They connect the wooden sill plate to the concrete perimeter foundation of a house or garage (eliminating the older method of the anchor bolt and washer running through a drilled-out sill). The new anchors save time since they can be secured to the sill with nails, then dropped into wet concrete for final positioning. The anchors take 2 by 4's and 2 by 6's.

Header hanger. Over the framed opening for a window or door is a header that transfers the downward load to side framing. Header hangers eliminate the use and cost of 2-by-4 "cripples" that have traditionally carried the load.

Hurricane anchors. In areas where there are high winds or earthquake potential, the hurricane anchor is used to tie trusses or rafters to side wall framing. It can also be used in other places where one member crosses another. The kind shown in our model is a real time-saver, since it eliminates the need to cut a "bird's mouth" notch in the rafter where it attaches to the top plate of a wall. Also, this anchor's U-shaped mouth keeps the rafters from tilting.

Reinforcing angles. These L-shaped angles come in different lengths; they can eliminate toe-nailing while making a strong connection.

T-straps. Like their cousins the L-straps, T-straps are made of a heavy-gauge metal and may be installed individually or in pairs. Either nails or bolts will work for connecting posts and beams. Ornamental black T- and L-straps are available.

Wall bracing. These metal straps on interior or exterior walls prevent racking. They replace traditional "let-in" 1 by 4's. There are two styles of metal wall bracing: flat and let-in (pictured).

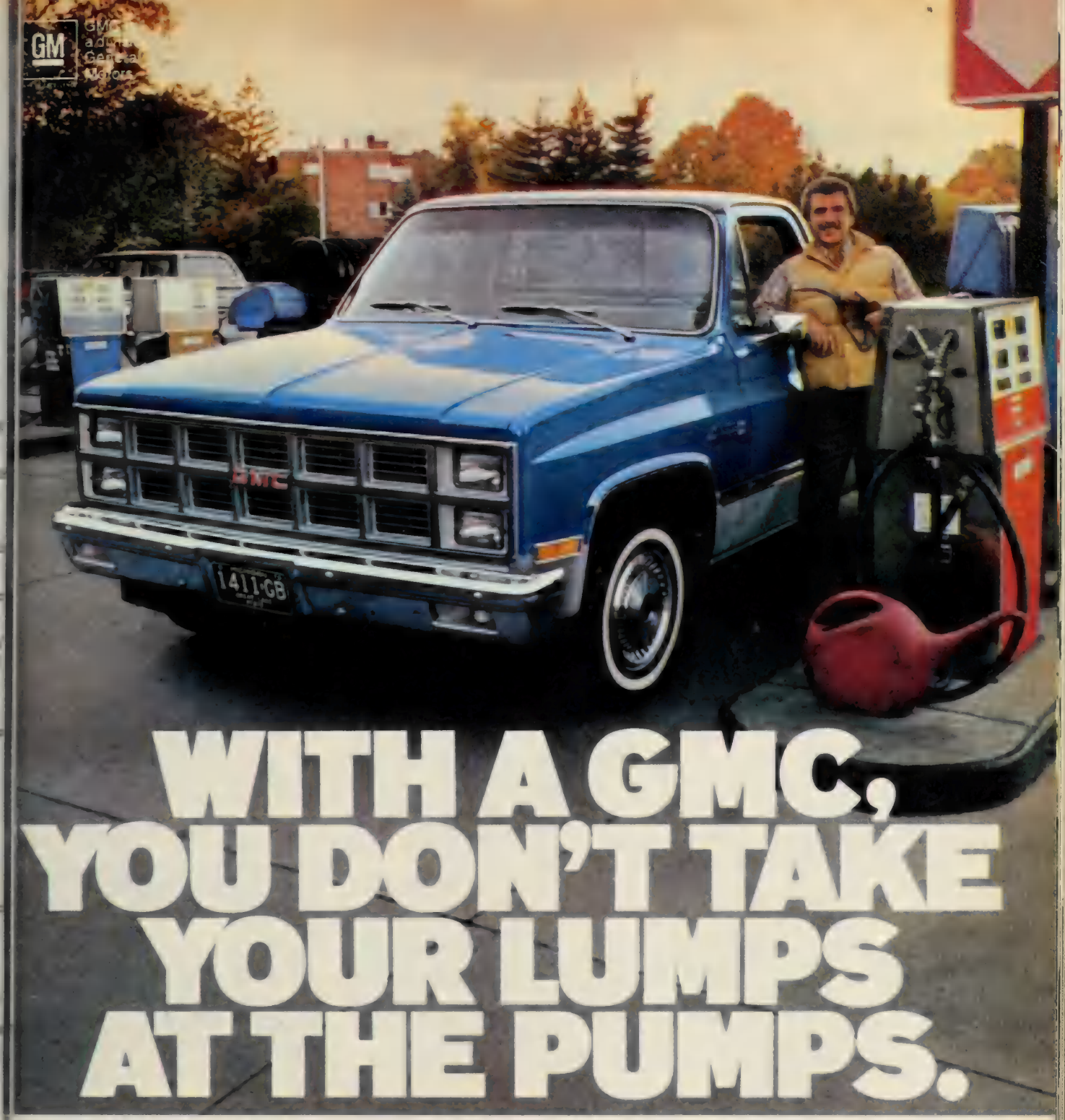
Bridging. Metal bridging helps stiffen joists and transfer loads concentrated on single joists. It substitutes for the wooden blocking normally required on spans longer than 8 feet. Bridging can be secured without using nails, since the ends are sharply pointed.

Other metal helpers

The connectors discussed so far are used for structural reinforcement. There are other types that help save time in construction or that have safety roles; we describe five.

Staircase angle. One of the trickiest parts of building stairs down from a deck is figuring out how to cut the notches for the steps. Staircase angles eliminate this procedure and allow you to make a strong connection to the stringers with woodscrews.

Fence brackets. These U-shape brackets come in widths for 1 by 4's, 1 by 6's, 2 by 3's, and 2 by 4's. Narrow sizes are



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S-5

NORMAN A. PLATE

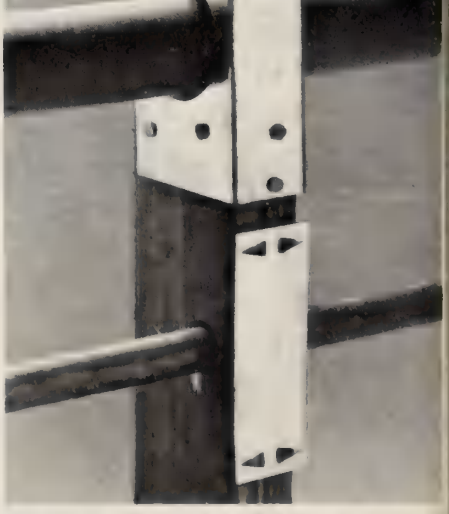
Fence bracket *holds removable fence section in place without nails*

ideal for securing louvers in fencing or an overhead trellis. Brackets sized for 2 by 3's and 2 by 4's make it easy to build fence rails that otherwise have to be toe-nailed to posts.

Stud shoes. When a large portion of a joist, rafter, or stud has to be cut away for water or gas pipes, or a vent, stud shoes reinforce the wood and protect the pipe against nail puncture.

Nail safety plate. This nailless plate protector covers wiring and pipes in framing members. (The sharp point of a nail can easily penetrate a copper water pipe.) Punched-in prongs secure the plate to a stud.

Drywall clips. These small clips (not shown) eliminate the need for blocking drywall (gypsum wallboard) projects, thus saving time and 2 by 4's. □



Stud shoe *(top) reinforces stud that has been notched for pipe. Nail stopper (below) protects pipe from nail puncture*

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Pattern 4199

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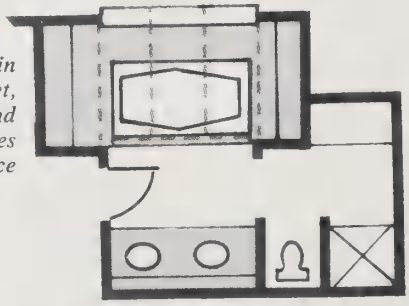
DON NORMARK

Skylight *and shaded window fill bathtub niche with daylight—a bonus for indoor plants and play*

Oak bench *opposite shower stall is convenient for dressing. Towel dries over wall heater*



Niches *define areas within bathroom: tub, sinks, toilet, and shower. Tiled shelf around tub with skylight above gives generous plant display space*

New bath has a garden, and the tub doubles as a play lake

Sliding doors *behind twin basins enclose storage for bathroom necessities*

Compartmented but open-looking, this bathroom fulfills its owners' requirements for privacy and comfort, then adds something else: it works as a garden room for growing and displaying tropical foliage plants.

The plants sit on slatted wooden shelves in niches at each end of the tub; they can also rest on the wide, tiled rim around three of its sides. Two clear skylights and a window admit lots of light, and the bathroom's moist atmosphere makes a nearly ideal environment for plants.

At night, subdued lighting dramatizes the greenery, and a bather has the pleasure of lying back to count the stars or watch rain splashing on the skylight. An adjustable blind at the vertical glass panel beside the tub ensures privacy.

A smaller skylight brings light into the area of the shower stall and toilet niche. An electric heater recessed into the wall warms towels hung on the bar above it.

Opposite the tub, the 6-foot-long counter with two inset washbasins is surfaced in the same tile as around the tub. Oak trim echoes the material used for framing the windows and for the flooring.

A large mirror that fills the wall above the washbasins (small picture above) captures and reflects light from the window and skylight above the tub. When the mirror is being used for makeup or shaving, overhead ceiling lights balance this strong daylight.

Owners are Greg and Roni Cass of Kirkland, Washington. Architect was Carolyn Geise while she was a member of the Hastings Group. □

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WILLIAM HELSEL

Mahogany and bamboo *are accented by black cotton fabric stapled to back of doors hung from standard closet track*

Doors use bamboo over black fabric

Most closet doors do little more than screen clothes. But these lightweight bamboo and mahogany doors add color and texture to the bedroom of Emily and Edward Chan. They replace the closet's old hollow-core sliding doors but use the existing hardware and overhead track.

The doors were designed and built by Piedmont, California, craftsman Daryl Rush, who has admired and studied Japanese woodworking. The sides of the doors are 1½- by 2¼-inch posts. Open mortises cut in their tops and bottoms hold rails (1 by 4's at the top, 1 by 8's at the bottom).

To hold the decorative bamboo poles, Rush first drilled ⅞-inch holes in 1-by-2 horizontals, then sawed the boards in half. He checked the fit, then glued the boards back together, securing the bamboo with brads from behind. The 1 by 2's fit into notches in the side posts. The two vertical 1 by 4's and a 1 by 6 on each door fit into notches in the back of the 1 by 2's and are glued to the top and bottom rails. ◻

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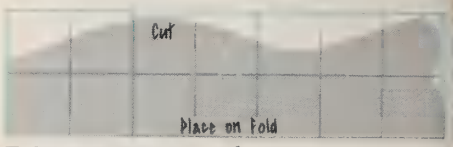
DARROW M. WATT

Aaron flies *his cloth carp, symbol of courage, on a bamboo stick. He and six-year-old Jenny made them with help from a parent*

May 5 is Children's Day... celebrate with a carp kite



Enlarge pattern *so each square is 3 inches on a side*

On the fifth day of the fifth month, colorful streamers take to the sky, as Japanese-Americans celebrate Children's Day. This traditional boys' festival now honors courage and ambition in both boys and girls, with parents bringing to mind past family achievements to inspire their children, and flying one carp-shaped streamer (*koi nobori*) for each child in the household.

To help you get the spirit, we show an inexpensive cloth carp kite you can make at home. It was designed, with children's help in mind, by Jeannette Arakawa of Los Altos Hills, California.

For each carp, you'll need one 12- by 21-inch piece of unprinted fabric, one very large oval-shaped potato to decorate the head, one long slender potato for the tail, one thick carrot for making scales, two colors of liquid tempera and two disposable plastic or foil trays, a large knife, a craft knife, waxed paper, an 8-inch strip of flexible wire for the mouth, a needle and thread, and a 36-inch bamboo stake for hanging.

First enlarge the grid shown in the drawing and make a paper pattern. Fold fabric in half lengthwise, right sides together, and pin the carp pattern on top. Cut. Stitch the raw edges together with a ¼-inch seam. Turn the fabric right side out and iron.

To prevent paint from bleeding through to the other side during printing, cut a piece of waxed paper the same size as the finished carp and slip it inside.

Using a wide-blade knife, slice the oval potato in half with one motion, making as flat a surface as possible. Cut a notch out of one end for the mouth. Using a water-base felt-tip pen, draw the eye and some surrounding scales on the surface of the potato. Now carve these lines about ¼ inch deep into the potato, using the craft knife.

Cut the slender potato in half lengthwise. Slice one end at an angle, the same end of the other half at an angle in the opposite direction. Cut lengthwise parallel grooves in both pieces to suggest texture of tail.

Cut the carrot into 2-inch lengths. On the ends of the pieces, draw and carve separate designs for the outside curve of the scales and their inside pattern. (If you cut the vegetables in advance, wrap them in plastic and refrigerate. They should keep up to two weeks.)

Pour a thin layer of tempera paint into a disposable tray. Use two colors for each fish—one for the head, tail, and inside of the scales, the other for the eye and the curves on the outside of the scales. Dip vegetable blocks into the paint until a thin coating covers the surface. Press blocks onto fabric and carefully remove. (You can clean paint off blocks by scrubbing gently with a vegetable brush and cold water.) When one side of the carp is dry, turn over and print the other side.

Next twist a piece of wire into a 7-inch circle and place it ¼ inch inside the fish's mouth. Fold fabric back over the wire and sew it in place. Sew a 20-inch-long double strand of thread to both sides of the mouth, forming a loop. With the craft knife, cut a small slit in one end of the bamboo. Slide the midpoint of the thread loop into the slit. Wrap more thread or tape around bamboo to hold this connection firmly. □

Carved carrot ends *print colorful fish scales. Potatoes made head and tail*

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You can count on Sears

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"The most distressing aspect for us was the steady stream of folks drifting through"

How to live through remodeling

Sunset reader-survivors share with us good and not-so-good experiences

The idyllic scenario of a tired old fixer-upper transformed — presto — into a haven of decks, greenery, skylights, and spaciousness just doesn't tell the whole story. Strangers, clutter, delays, and confrontations all too often turn what could be a creative process into one of anger and disappointment.

What can families do to reduce the strain of remodeling and to make it pleasanter for everyone involved? We put this question to scores of recent remodelers, as well as to designers, architects, and contractors. Here are their suggestions as well as ours.

Early on

Be prepared. "If only we'd been wiser in the beginning," is the refrain we heard again and again. Unrealistic expectations ("He said they'd be done in three weeks" . . . "We thought we'd eat all our meals out" . . . "I assumed they'd clean up every night.") cause more problems than anything else. No matter how much or how little of the work you will do yourself, be responsible for understanding your project. Don't be the victim.

> We have just survived a complete remodeling job. "Survived" means to us that we are still married and our children didn't leave home. I don't know if we'd do it again. I do know we would do things differently. First, I'd use the "double expectation theory." Double the cost, double the time, double the inconvenience, and double the family problems.—*Carol Starr, Phoenix*

As a homeowner, the biggest part of your job will come before the first nail is driven or wall is ripped out. As you mull over plans in your mind, keep looking at building and remodeling books, articles, and floor plans. Visit construction sites to see how things go together. Take a remodeling class, if one is available. Learn about building codes.

> The more planning you do, the fewer headaches later. Make as many early decisions as possible, including things like light-switch locations and ways doors will swing. By the time construction is underway, you'll be sick of deciding.—*Margaret Malsch, Wenatchee, Wash.*

Talk to experienced remodelers, asking them what went well, what surprised them, what they would do differently next time.

> The most distressing aspect for us was the omnipresence of outsiders . . . the steady stream of folks drifting through. It's the part of remodeling felt by everyone, and must be dealt with, if only by finding one corner of the house where the family can be alone.
> —*Leslie and Jim Goldsmith, Portland*

Of course, what's hardest for someone else may not be burdensome to you.

> Our kids often ate lunch with the workmen and, by the end of the job, we were like one big family.—*Elizabeth and David DuBois, Bremerton, Wash.*

Before you start

If you're undertaking more than a simple project, don't try to do everything yourself. Before hiring anyone, talk to friends who've lived through a remodel. Ask for names of architects and contractors they would recommend.

Accurate, detailed, code-meeting plans are essential to a positive remodeling experience. Using an architect may save you time and money in the long run, and may result in a more visually satisfying, more livable remodel. You can hire the architect for design only, for design plus blueprints, or for design, blueprints, and in-progress supervision.

It's also true that many builders/contractors are skilled in their specialty and can provide all these services.

Live with the plans for a while, studying each detail. Remember that blueprints are a complete set of instructions written in builders' language, and the effort of understanding them is well worthwhile. If they confuse you, ask questions.

> Our first contractor charged us heavily for every change in the plans. Next time

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Beautify your home with Sears vertical and horizontal blinds.

"If you end up friends with your contractor, he's done a remarkable job"

we'd study them, measuring each cupboard, visualizing the room inch by inch.—*Susan Rinsky, Cupertino, Calif.*

Taking bids and choosing a contractor

Go over your plans with a number of contractors before you accept a bid. Ask how each bid was arrived at, and don't necessarily choose the cheapest. If you intend to do some of the work yourself, specify what you will do both in demolition and construction so the contractor will know what to expect and can give a more accurate bid. Likewise, ask for a detailed list of his or her duties.

You may save money if you act as your own contractor, but the job often takes a staggering amount of time and patience.

Our family room/kitchen remodel was fairly simple, yet we had no idea how many subcontractors it would involve: carpenters, roofers, sheet-metal installers, a plumber, an electrician, a cabinetmaker, a drywall installer, taper, and texturer, tile setters, a mason, a glazier, a cabinet stainer, and flooring installers.—*Ellen and Rich Kitson, Los Altos, Calif.*

Luckily we had a general contractor. When things went wrong, we kept calling him until the wrongs were righted. The contractor was worth his weight in gold. We didn't have to chase anyone. He did.—*Mary and Bernard Melone, Escondido, Calif.*

We were fortunate to have a contractor who handled all the unforeseen problems beautifully. Had we contracted the work ourselves, we might have been forced to accept inferior workmanship and cabinets that didn't fit.—*Eleanor Mackensen, Yuba City, Calif.*

Finding the right contractor, however, is no small job.

They're like people anywhere—there are good ones, bad ones, nice ones, rude ones.—*Alla and Ned Keyes, Santa Rosa, Calif.*

Good rapport is essential. There are too many unexpected problems that occur once the project has begun to argue over little things.—*Susan and Alan Reiter, Enumclaw, Wash.*

Check out each contractor carefully. Ask a lot of probing questions. Call lumberyards to check cost of materials against the figures your contractor is using. Ask which trades are involved and how long it will take each one.

Our contractor, who had been a good personal friend, had better things to do than our home. We also found out he was getting kickbacks from the subcontractors. Never put your complete trust in your contractor. Never mix business with friendship.—*Carol Starr, Phoenix*

Reasoning that a contractor wouldn't give the name of a dissatisfied homeowner, some people don't bother to check references. We recommend that you do. If four or five past projects went well, the odds are better that yours will, too. When you call these people, ask specific questions: Was the job started and completed on time? Was the price agreement kept? Were the workmen accommodating? Did the contractor perform as he said he would?

Remember that there will be problems even the contractor doesn't foresee. On the other hand, making sure before the project begins that your contractor is honest, reliable, and knowledgeable will give you the confidence to weather them.

If you end up friends with your contractor, he's done a remarkably good job. Taking the low bid might not pay for itself in the long run. Even with a friend, have a firm written contract and stick to it.—*Alijandra Mogilner, San Diego*

Avoiding financial conflicts

With so much money involved in remodeling, the potential for problems is obvious.

Our contract called for 20 percent before, after, and at three stages during the job. It was to take 10 weeks; it took 16 months! At one point the electrician called to say he hadn't been paid $1,800. Then I found out that my contractor was filing for bankruptcy.

I recommend using licensed contractors and checking with the state contractors licensing board about the rules. I only had to put $100 down, not the $4,000 my contractor wanted.—*JoAnn Witt, San Jose*

Do contact your state contractors licensing board (listed in the white pages) and Better Business Bureau about finance regulations.

Many professionals recommend putting the entire remodeling sum in escrow and using vouchers for payment. When work is completed to predetermined stages, the owner signs a voucher to release the cash. This is a tight arrangement based on performance. Its disadvantage is that you may lose potential interest on the money while it is in escrow. But it sets a business-like tone for the whole process.

Too many people want to be pals with their builders. If they furnish beer to the workmen, they assume they'll get a good job. That just isn't real. What is real is that everyone's there to make money. Set firm standards before the contract is signed.—*Bob West, Oakland*

There are some other financial arrangements you might want to consider.

We set up a performance bond with our contractor, deciding how much work would be done to merit a particular percentage of payment. For example, when the job was 25, 50, and 75 percent complete, we paid him that percentage of the fee, less 10 percent that went into a joint savings account. When the job was done and we were sure all the bills were paid and there wasn't a lien on our property, the contractor got the money, plus interest, from the savings account. —*Margaret Malsch, Wenatchee, Wash.*

We used fund control. Many building materials companies have this service at a nominal cost. Instead of you or your contractor, they pay all bills, acquire lien releases, and withhold payment until any problems are solved. —*Alijandra Mogilner, San Diego*

Our bank paid directly to the contractor after the bank inspected each step of the work. Our contract spelled out the costs, and we exceeded them only for items we changed as the work progressed. —*Elizabeth and David Dubois, Bremerton, Wash.*

If changes are made along the way, specify all the details on paper so there are no disagreements over the bill. Then be sure all work is completed before making the final payment.

Put everything in writing—sizes and colors and installation and model numbers. Don't leave anything out.

And, no matter how nice or needy the builders are, hold onto that last check until everything's done. Once you've paid them in full, they may never come back.—*Donna Ryan, Studio City, Calif.*

"Take pictures before, during, and after"

Documenting your progress

You may want to photograph your home before, during, and after the remodel, both for your own enjoyment and for possible tax and insurance reasons.

Take pictures and save all receipts. If you decide to sell later, the IRS takes only receipts that list each item

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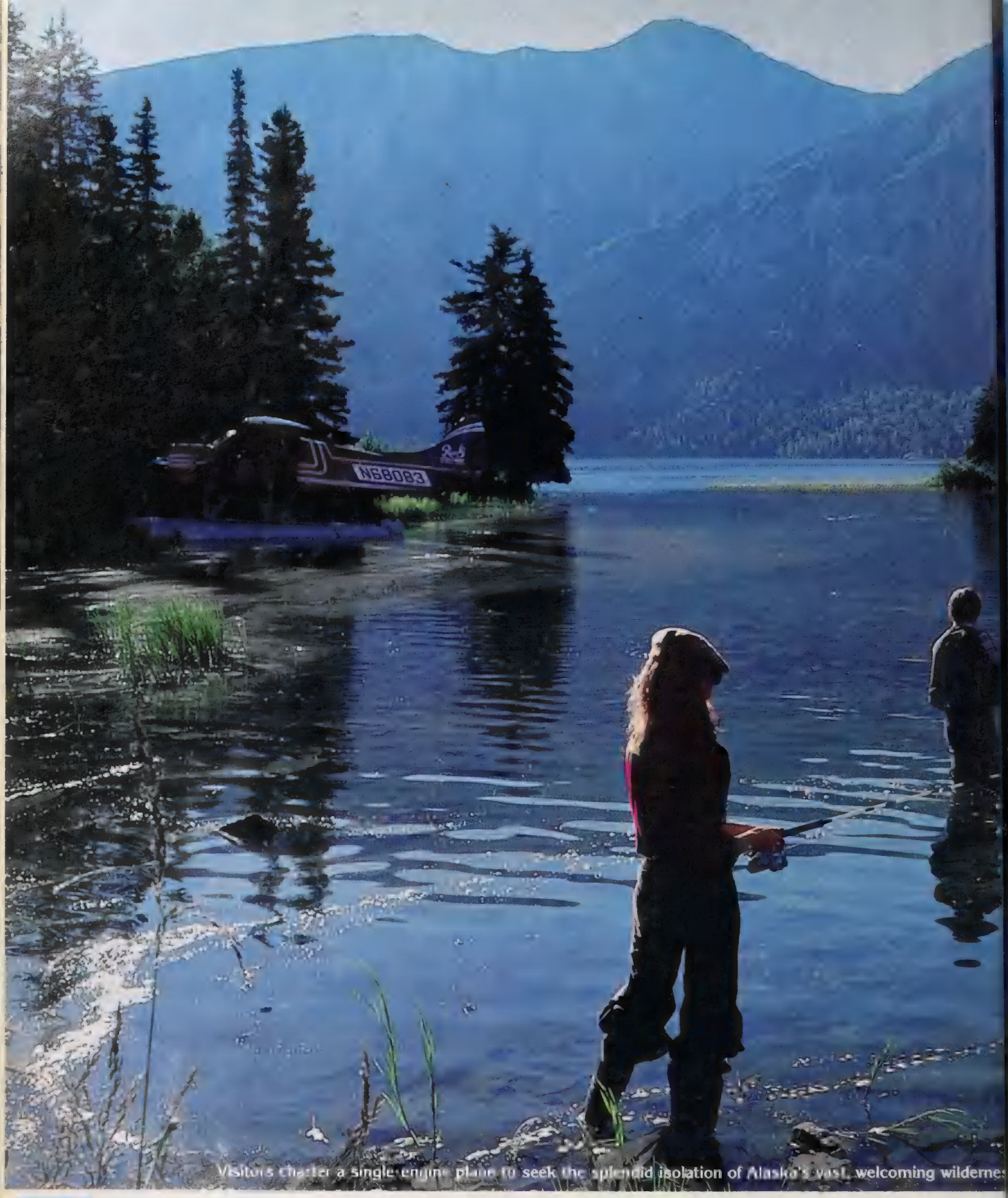

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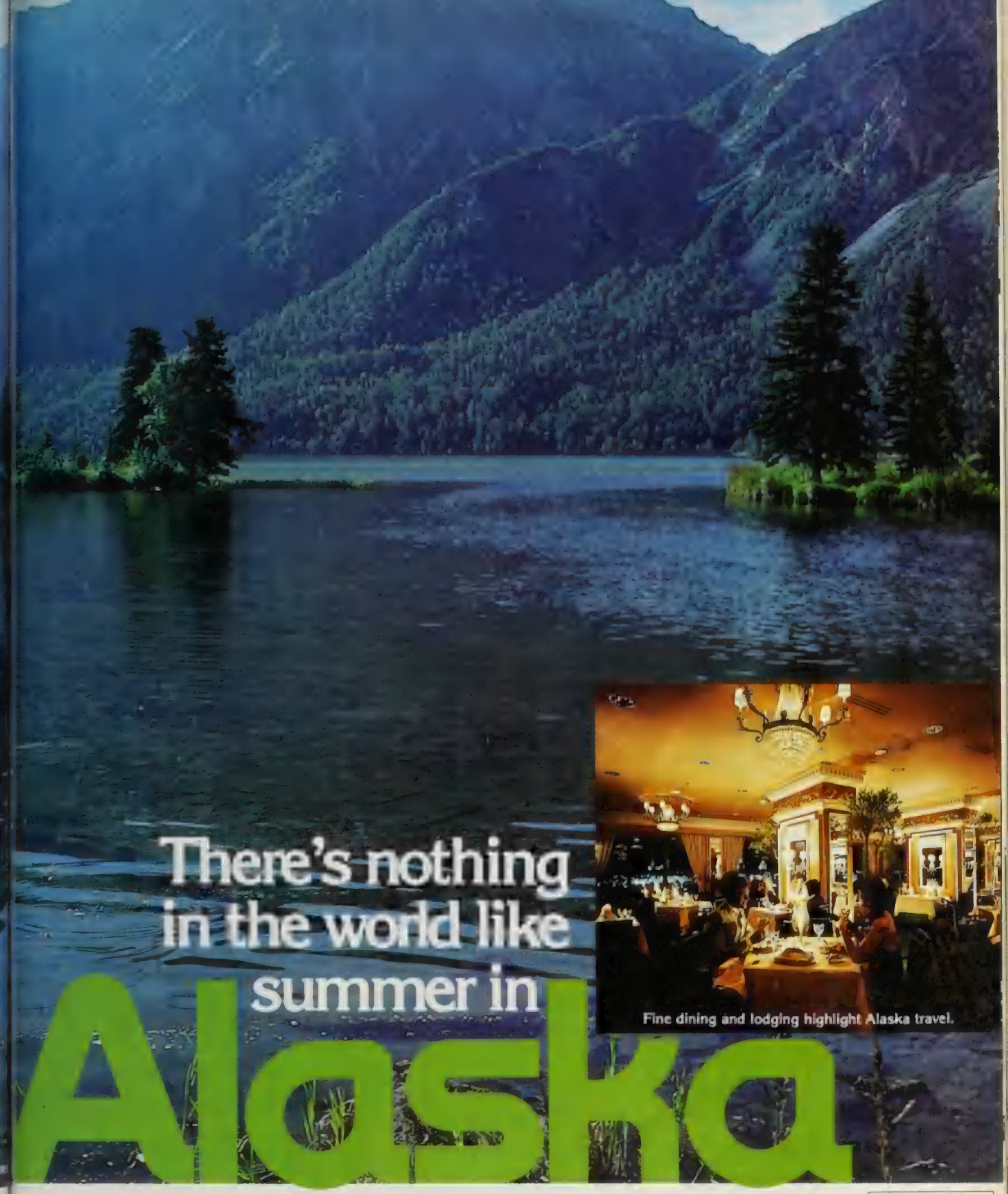
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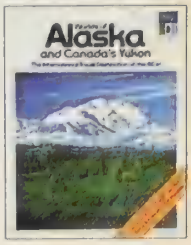


Sebastopol, Calif.

Makeshift living arrangements

Inconvenience is part of the price you'll pay to remodel. That usually means shifting your living patterns to leave the construction zone vacant.

> We condensed a seven-room house into three, packing away all valuables and breakables.—*Elizabeth and David Dubois, Bremerton, Wash.*

> We preferred to pay storage fees than cope with moving things around from room to room. We missed very few things, even the furniture.— *Karen and Mike Cobb, Friant, Calif.*

Depending on the extent of your remodel, consider bringing in additional living and storage space.

> We bought a secondhand 15-foot travel trailer from a newspaper ad ($350), cleaned it up, and used it as a kitchen. We built a small wooden deck and ate outside a lot. This took the cooking out of the mess and the strain off of me. Afterwards we sold the trailer.—*Jean Pfaff, Garden Valley, Calif.*

> We moved into the garage during our remodel. We were quite comfortable, with a bed, a refrigerator, an electric cooktop, a stereo, a chest of drawers, and a dowel hung from the ceiling for our clothes.—*Joan Hardie, Santa Barbara*

> We started by building a 12- by 24-foot platform upon which we placed a 9- by 15-foot tent. This was our home from mid-May until the end of October. The baby and 2-year-old did fine in down sleeping bags. Food preparation was as usual . . . just more time and thought, as well as proper storage of food (coolers and ice packs). Plenty of storage was available under the raised platform. A trailer might have been simpler, but what fun in survival, what experiences and memories!—*Susan and David Kilpatrick, Soldotna, Alaska*

Some people take the opposite approach —vacationing and house-sitting for as long as possible.

> We dubbed our remodeling experience, "Sleeping Around in Contra Costa." We moved every few weeks, either house-sitting or staying with good friends. We shared expenses, helped with meals, paid our share of the telephone bills, and tried not to grate on the nerves of our many hosts and hostesses.—*Helene B. Weber, Lafayette, Calif.*

"In summer we improvised an outdoor kitchen"

> middle of all this and came back with new ideas and enthusiasm. After all, some of those cathedrals took hundreds of years to build, so what's a year or so out of our lives?—*Gail and Carroll Peterson, Mill Valley, Calif.*

Cooking and cleanup

Meal preparation can be a challenge while kitchens are on vacation. Set up a makeshift kitchen in the dining room, basement, or even outside. Dig out all those electric appliances (crock pot, toaster oven, electric frying pan, or wok). You might invest in a double hotplate, or ask your contractor if he can provide one; we heard several complaints however, about their effectiveness. Weather permitting, cook outdoors on a grill, propane stove, or hibachi.

> In the winter, we cooked in our extra-large fireplace. This worked fine since there's built-in ventilation.—*Karen and Mike Cobb, Friant, Calif.*

If you plan to buy a new microwave or convection oven, do it early. Learn to use it well in advance, then plug it in wherever your temporary kitchen happens to be located.

> Our microwave was great: we could heat water for cooking and washing and cook with less mess.—*Nelda Warkentin, Anchorage*

As for food itself, there are a number of approaches.

> One month prior to beginning work, don't eat in any fast-food restaurant. There will be many nights when the sight of the mess is more than you can handle at home.—*Leslie and Jim Goldsmith, Portland*

> Use lots of finger foods, raw vegetables, fruit, and breads. It's a great time to lose weight! Always have a pot of homemade soup simmering on the hot plate or crock pot. It's an easy meal and can be extended to serve drop-in friends who offer to help.—*Nancy Adams, Issaquah, Wash.*

> Before we started the remodel, I stocked my freezer with one-dish meals, sometimes in seal-a-meal bags for easy cleanup.—*Margaret Malsch, Wenatchee, Wash.*

> Forget the cooking, relax, and remember it's not forever. No one's ever died from an overdose of pizza.—*Carol Starr, Phoenix*

> We invited friends who were in the throes of remodeling (if your house needs it, others in the neighborhood may also) for dinner fairly often and asked not to be paid back—until we were in in the same position.—*Leslie and Jim Goldsmith, Portland*

Washing dishes is the other half of mealtime problems. For fair-weather remodels, you might hook up your old sink and dishwasher outside.

> We put the stove and refrigerator in the garage and the sink and cabinet in the back yard. Here we washed dishes, rinsed with the garden hose, then scalded and dried . . . so simple. —*Marie and Robert Anderson, The Dalles, Oregon*

The bathtub, however, seems to be the most common spot for washing dishes. (Naturally, you'll use a dishpan and strainer.)

> Did you ever take a bath and see a piece of lettuce float by?—*Alla and Ned Keyes, Santa Rosa, Calif.*

In some cases, having water for dishes, let alone for anything else, is a luxury.

> We've been without water so many times we can't even count them. I fill every container we have in advance. For longer periods, the best solution we've found is to hook up hoses from the neighbor's house to ours and to rent a portable outhouse.—*Linda and Bob Kiefer, Sebastopol, Calif.*

> For a place to shower, we joined a health club.—*Nelda Warkentin, Anchorage*

"Our kid often ate lunch with the workmen"

Helping children adjust

As adaptable as children can be, this is still a difficult time for them. Often they're uprooted from bedrooms, unable to find toys, and barricaded from work areas. And subconsciously you may be making them scapegoats for frustrations. Keep lines of communication open and make time for the family to talk and to play.

Many remodelers recommend involving youngsters in the work.

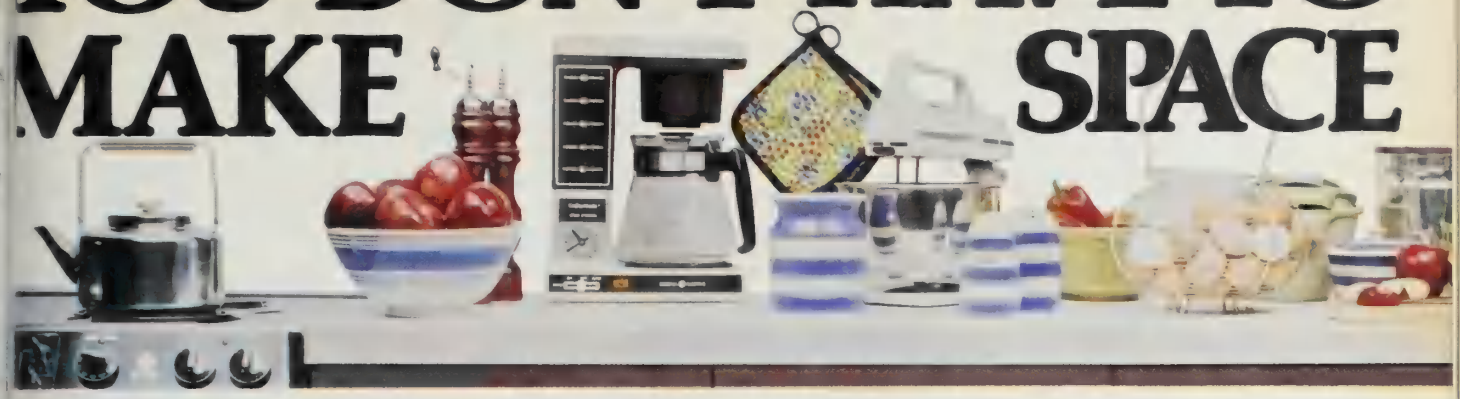
> Give them jobs to do: pick up nails, haul dirt in buckets, hold ladders, and so forth. They'll be entertained and will feel that they've had a hand in the new room.—*Susan and Dave Welch, Santa Maria, Calif.*

> To keep our young sons occupied, we gave them nails, hammers, and a dirt pile to nail into. Later they advanced to wood. We kept the electrical power turned off until the drywall was in place and the cover plates were mounted. They learned what was off limits, but they also learned to play around wood, nails, and the drywall. Our house was a mess, but the children had great experiences.—*Lyndell and David Powell, Newbury Park, Calif.*

Before remodeling begins, you'll want to be sure your family's tetanus shots are up-to-date. Brush up on first aid, and keep eyewash and a well-stocked first-aid kit handy. Supervise children and animals, making sure they're not in the way of your workmen.

> Our workmen were very patient and we thought the kids and they were doing

YOU DON'T HAVE TO MAKE SPACE



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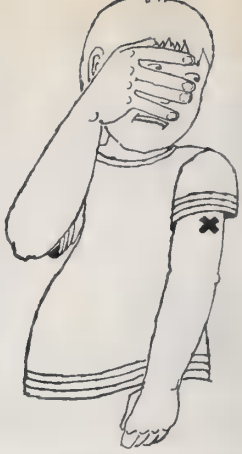

"Be sure your tetanus shots are up to date"

pretty well until our son told us, big-eyed, that the table saw was for cutting up little boys who ask too many questions.—*Chris Gustafson, Seattle*

Dealing with workmen

Developing a good working relationship with your builders and tradesmen is essential. In many cases, this isn't easy. Both of you come to the relationship (and it is a relationship—often more involving than you'd guess) with expectations about how things will go based on hearsay and past experience.

Every contractor, no matter how competent, has some job somewhere that is a day or week or month behind, and the lady in that house is getting mean. If there's no one at home for a week or two at your place, the mean lady will get lots of attention.— *Leslie and Jim Goldsmith, Portland*

It's easy to see how stereotypes can get in the way. ("They're sloppy, indifferent, and their machismo won't let them listen to a woman." Or, "The lady doesn't know anything about building; all she does is interfere.")

Take a more charitable point of view. Recognize that most workmen take pride in their craft and appreciate what is done well. Additionally, speak up if something really bothers you. Set standards in advance—if you want the area broomed clean every night, say so at contract time. If you want the mess confined to a particular area, define it and work out how often the debris will be removed. Provide a safe place for builders' supplies and equipment and an area where new materials can be stored. (Be sure your own tools are marked and kept separately.)

One contractor offered suggestions from the worker's point of view.

Make sure your house number is readily observable. It wastes time to look for the green house with white trim two doors down from the broken stop sign.

Securely pen your pet. I've had employees refuse to return to a job because of a bothersome dog or cat

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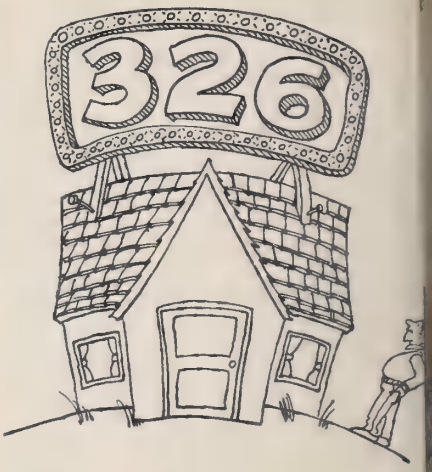
always underfoot.

Get dressed early in the morning. It's disturbing to work around a woman still in her nightgown at 10 A.M.

Put everything in a safe place before construction begins.



"Make sure your house number is readily observable"

Stay out of the way. If questions are likely, be available but in another part of the house.

Don't ask skilled workmen to clean up; usually they charge $20 or more an hour and would prefer to do their job competently and quickly, then send someone at a lower pay rate to clean and scrap out. Arrange this with the contractor.

If your workmen aren't showing up, ask why. Occasionally, the reason is simply that the contractor or subcontractor is just not competent. Send a legal perform-or-else notice to the contractor. Then hire someone else if he has not performed by the time allowed.—*William and Sandra Bell, El Cajon, Calif.*

But, Bell advises, always try for the most effect from the least action. Fifteen phone calls a day earn you the name of nuisance, frazzle your nerves, and still don't guarantee a workman on the job.

Confronting problems

No matter how pleasantly things start or how much the homeowner and contractor agree, problems will arise.

At some point, the homeowner will jump up and down and announce loudly, "By golly, the job is going to be done right if it takes 10 years!" Forget it. There's no way you can live through another 10 years of it. Besides, any contractor worth his salt knows that shortly the same homeowner will jump up and down and announce even more loudly, "I want all of these people out of my house now, even if we have to finish the job ourselves!"—*Leslie and Jim Goldsmith, Portland*

Trust your judgment. If you perceive that the work is not going well, don't delay in asking why or stopping the work altogether. The alternative (hoping for the best and not complaining, as we did), can be astronomically expensive, prolonged, and frustrating.—*Name withheld by request*

Some things will go wrong and have to be redone, or may not be done on time. Be nice but firm in insisting things be

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et the step-by-step plans that show you how to build the Stanley ıdoor Fitness Center. *And* the step-by-step ways to use the three units, › win the better physical fitness you want. It's just as you may have seen on network TV. And just as enjoyable to do!

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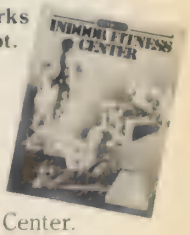

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done properly.—*Donna Ryan, Studio City, Calif.*

If there is any problem, don't sue, take it to arbitration. It's faster, less expensive, and very effective.
—*Alijandra Mogilner, San Diego*

Handling the mess

Most homeowners have no idea of the disorder construction creates. If possible isolate the remodeling zone from the rest of the house to localize sawdust, plaster dust, wood shavings, fumes, and dirt. Use heavy plastic or plywood to seal off doors, stuffing towels or rags into the cracks.

Keep kitchen counters and stove covered while construction is underway. To protect the floor, lay out cardboard or newspapers. Tape heavy plastic or lay carpet or plywood over heavy traffic routes such as construction zone to bathroom.

"Sheetrock dust has to be swept and vacuumed time and again before it's all gone. I ruined one vacuum motor. Next time I'd invest in a shop vac."
—*Karen and Mike Cobb, Friant, Calif.*

Getting away from it all

Once in a while it's important to close your eyes to the mess and take time off. Take a weekend trip, accept invitations, give yourselves treats as you reach partial goals.

"Show each other love and respect. Keep your sense of humor—or develop one. We had to make a joke of some of the mistakes or else we would have cried buckets."—*Charlotte and Cecil Brown, San Francisco*

Our friends were wonderful. We had never been as close as we were during those months. There's really no way we can ever show our appreciation for their hospitality and understanding.
—*Helene B. Weber, Lafayette, Calif.*

This, too, shall pass

Eventually the work will end and you'll have what you wanted. From that perspective, things should look better.

We now have a home we like and an added sense of competency. Would we do it again? I hope we never have to! But now we can say it was worth it.—*Joan and Dick Spencer, Kirkland Wash.*

Self-satisfaction and pride kept us going. We learned a great deal, not just about construction, but about each other.—*Karen and Mike Cobb, Friant, Calif.* □

"But now we can say it was worth it"

You might buy Pella sliding glass doors because they look so good. But there are even better reasons.

ke how you can use them. This house doesn't ok out onto a view — this house *is* the view. The ntire focus — letting the outdoors in, and the in-oors out — is created by yards of Pella Standard liding Glass Doors and matching Pella Fixed nits. And nothing less than Pella would have orked to carry through such a dramatic theme.

or one thing, the trim, narrow frames allow an lmost uninterrupted passage of yard and terrace nto the home. Inside, the wood frames made of Vestern pine are finished to beautifully match the eams and paneling in the ceiling. And the shape f the doors and windows is of classic propor-ons that complement the size and scale of the oom.

ll in all, the clean, simple lines of the doors and vindows are a significant contribution to the re-ned and timeless statement this home makes.

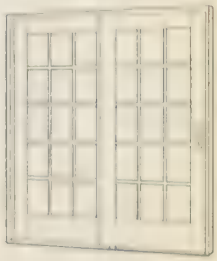
One reason Pella doors look so good is that hey're built so well. The solid wood construc-on is steel reinforced for strength and warp resis-ance. But before assembly, all wood parts are acuum treated with insect and water repellent reservative. The door rolls smoothly on low-riction wheels that can be adjusted to accom-nodate installation variations.

Pella's own Triple Insulating Glass is available. his system puts two 9/16" air spaces between hree panels of glass for energy efficiency that significantly outperforms conventional ⅝" insulating glass. Standard glazing is two panes of glass separated by ½" of insulating air space. Solarbronze* glass is also available to reduce heat gain and glare. And, because the sliding panel is mounted on the outside of the unit, the harder the wind blows, the tighter the weather-stripping seals for effective control of air infiltration.

The self-closing screen is framed with solid wood also. It, too, is steel reinforced to stay straight and true. Its non-derailing design keeps the door on track, and the smooth riding rollers can be adjusted to accommodate installation variations. Yet, the most appreciated feature of the spring-operated screen door is that it closes and latches securely all by itself.

You've got better things to do than scrape and paint. The Pella Clad System can relieve you of all that. The exterior is covered with aluminum cladding that's securely attached to the wood. The White or Dark Brown finish is high temperature baked enamel that's extremely resistant to color degeneration, blistering, peeling, cracking or chipping. Even with all this protection on the outside, all you see on the inside is the warmth and beauty of real wood.

Maybe a traditional style sliding door is more in keeping with your home. Only Pella offers you the Contemporary French Sliding Glass Door. Identical in many ways to the Standard Sliding Glass Door, the Contemporary French style offers some unique qualities of its own. It uses the exclusive Pella Double Glass Insulation System that features a removable inner panel of glass with a full 9/16" of insulating air space between panes. This interior panel can also be specified as Solarcool* Bronze glass to reduce heat gain and glare. And the air space between will accommodate the attractive Slimshade* — narrow slat metal blinds that are adjustable and available in either Oyster White or Dark Bronze. Or you can create an even more traditional look with authentically proportioned dividers made of solid wood, ready for stain or paint.



Another unique Pella feature: a toe-operated lock that latches the door securely in two positions. First is completely closed. Or, for security and ventilation, the die-cast bronze finished lock can secure the door approximately three inches open. The door can also be fitted with a key operated exterior lock.

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LARRY BULL

Entry light fixtures *project from cedar shake siding, blend well with house design. Frames swing out (as below) for bulb changing and glass cleaning*

Swing-open lights in the cedar wall

These wall-hung fixtures light up the rustic lines of a cedar shake house near LaConner, Washington.

Designer Glen Bartlett made the fixtures using materials salvaged from the construction of the house he designed for Mike and Maxine O'Leary.

For each light, a 19- by 39-inch frame of mitered 2 by 2's was nailed to the house's plywood sheathing before the shakes were applied. Then a 16- by 36-inch box, designed to fit inside the frame,

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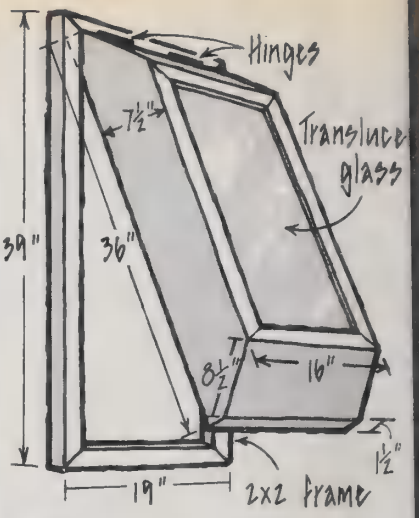
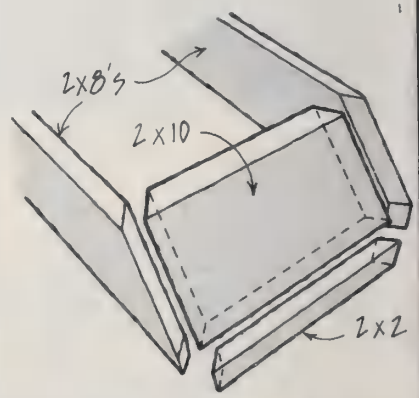


Sizes shown *are from the O'Leary fixtures; they could easily be adjusted to suit wood available and needs of site*



Mitered corners *and other joints call for careful cutting. Top and bottom 2 by 10's are mitered on four sides*

was constructed from mitered pieces of cedar 2 by 8 (for the two trapezoidal sides pieces), 2 by 10's (for top and bottom) and two 2-by-2 blocks (see diagram above) that help simplify construction.

To match detailing of house windows and to help shed water, the sides slope top and bottom at a 45° angle.

Two heavy-duty marine hinges attach the box to the top of the frame. The box fits snugly to keep weather out, but swings up for easy cleaning or replacement of bulbs.

After the boxes were installed, cedar shakes were butted up against the 2-by-2 framework.

To build the box, first cut all pieces as diagrammed. Cut all joining edges of the sides and top and bottom pieces at a 45° angle to make miter joints. Miter only the ends of the 2-by-2 blocks.

Cut the glass slightly larger than the opening, insert it from behind, and fix in place by brads or tacked-in wood strips. Seal the glass from the outside using wood putty. □

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Central corridor. *Plants get a drink in glass-walled atrium. This light/air shaft of factory-type steel-sash windows through center of house is surrounded by stairs and landings rising from one level to next. Windows open to vent house in summer, as above*

PETER O. WHITELEY

In living room. *Sloping skylight creates sunlit bay. Here too, window sections open for ventilation*

House wraps around a tall glass box

Everywhere indoors is a garden feeling

Light and air filter deep into the center of this hillside house in northern California. A steel and glass atrium of factory-type windows, open to the sky and filled with pots of tall trees, plunges through three levels of the house's 1,800-square-foot interior.

The steel windows used throughout the house, combined with a straightforward, undisguised use of concrete and sandblasted lumber, achieve a look that owners Karen and Richard Whittaker call "industrial esthetics." They asked architect Hanns Kainz of San Francisco to use these elements in a house that would be cost-conscious, unusual, and suitable for a family.

From the standpoint of expense, the house trades off the high cost of custom-designed windows and extensive foundation work with savings in interior finishing (which wasn't needed in many areas). Kainz designed the windows without being limited by standard sizes; the steel

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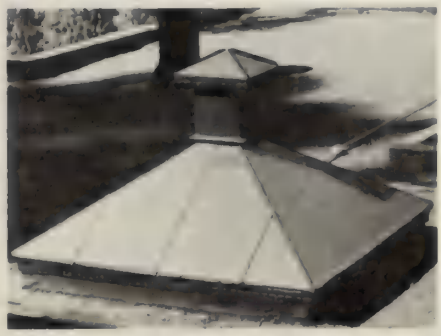
Out in back. *Glass walls and roof atop textured concrete retaining wall provide shelter for hot tub, moist growing environment for indoor plants*



sashes had to be assembled and welded —and the glass installed—on site. The windows were an expensive initial investment, but they don't warp and they require little or no upkeep; the slender steel mullions seem appropriate in the atrium, where wood framing could appear bulky. (Standard module windows cost about $105 for a 4- by 5½-foot area; ask an architect or contractor for help in locating a manufacturer.)

Retaining walls—exposed both inside and out—allow the house to step down a steep lot. Sandblasted plywood forms give the concrete a wood-grained texture handsome enough to be the only finish on base walls in the atrium and each of the bedrooms. Builders used the least-expensive grade of ¾-inch plywood for the forms, because it's softer and has more knots.

For the greatest savings, owners and architect scouted for lumber to recycle. It took time, but they found lumber costing as low as half the price of new material, and managed up to 75 percent savings on heavy timbers, such as the 4-by-12 fir beams that support the roof. Posts, beams, joists, and ceiling boards were all sandblasted and left unfinished. □

Over bedroom. *Pyramidal custom skylight with top-hat vent gives vaulted look to rough-timbered ceiling below*

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PETER O. WHITELEY

Angled peninsula *is center of kitchen activity. Countertops of synthetic marble are edged in oak to match cabinetry. Eating area behind counter was an addition*

There's little wasted motion around th peninsula at the core of this remodele kitchen. It has been designed so tha most of the labor-intensive chores—foo preparation, cooking, dishwashing, an storage—are all within a step of on another.

This kitchen works very well for owner JoAnn Ensign and Bill Lewis of Pal Alto, California. A professional couple both husband and wife enjoy cookin but have little extra time during the wor week. With that in mind, designer builder Thomas Keller came up wit some storage ideas that streamline th kitchen's efficiency.

Keller built two-way storage spaces int the peninsula that divides the room int kitchen and eating areas. Silverware glasses, and dishes can be loaded ont shelves and into drawers from th kitchen side, then unloaded from th dining side.

The 10-foot-square dining area wa added to the rear of the house. Slidin glass doors (opening onto a small deck) a skylight, and two windows bring ligh into the tree-shaded room. White walls the light oak cabinetry, and Roman blinds in a bright print all help keep th room cheery.

Two-way cabinet *protrudes at angle for easy loading and unloading of kitchenware*

Double-faced drawer *slides either way. Both fronts are finished, have handles*

Angled drawers *open on eating side of peninsula divider, making the most of space under counter*

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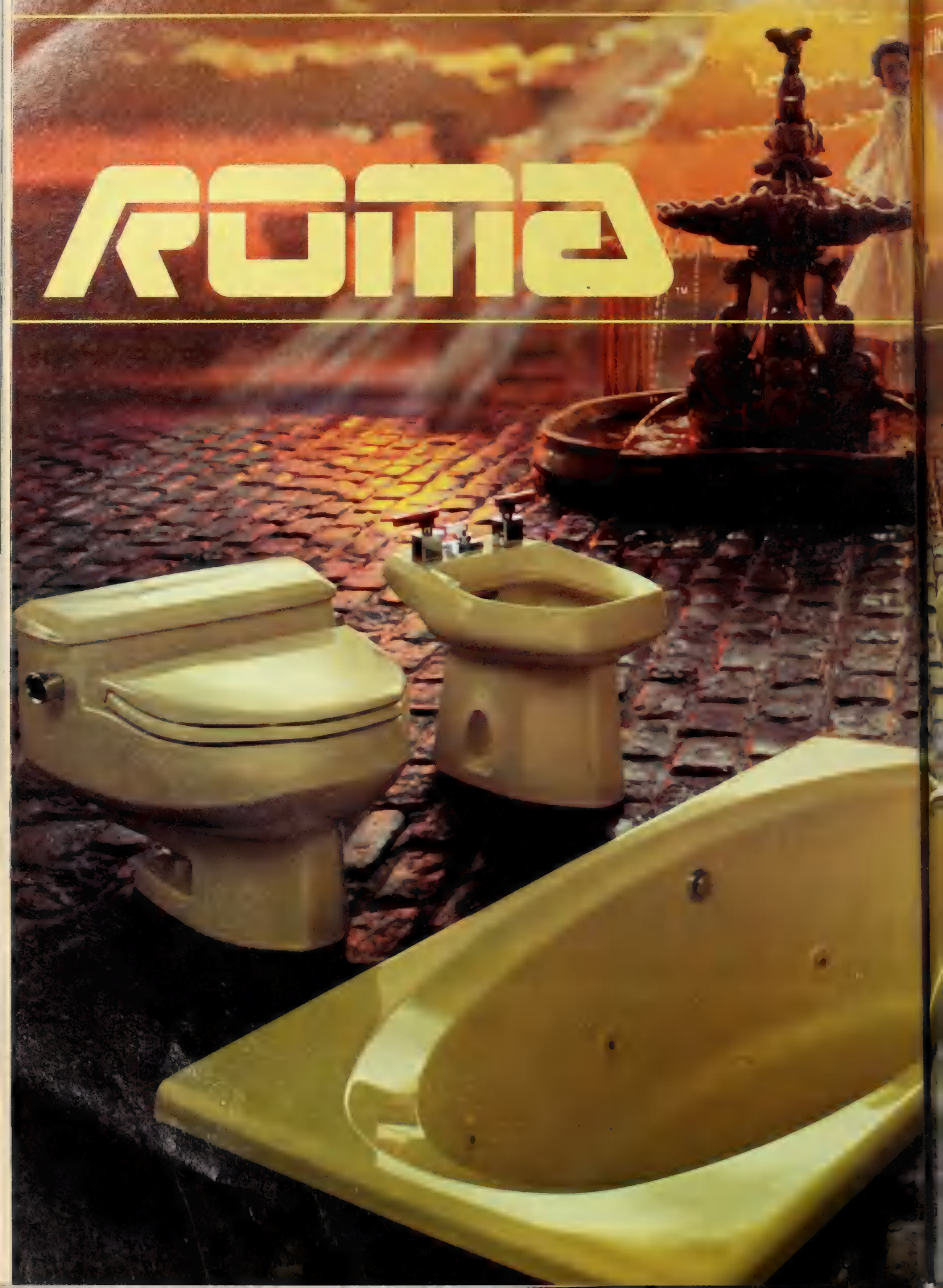
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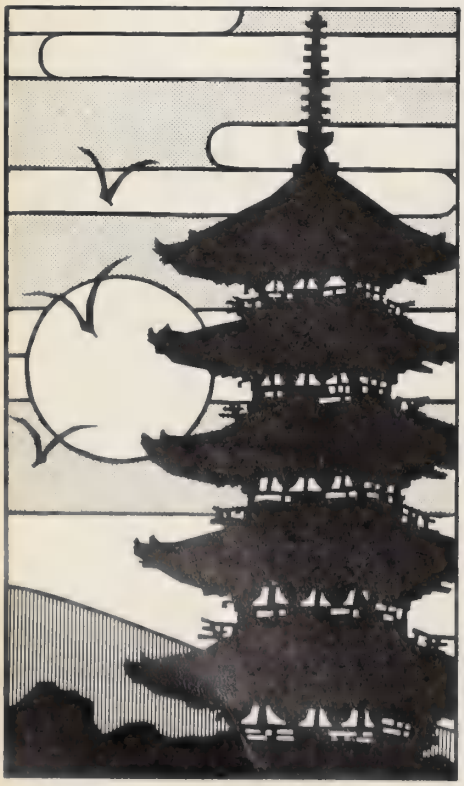

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DON NORMARK

Inside back yard, *bin is high enough to hide cans, low enough for reaching into them*

On the alley side, *spring-latch doors open for trash collectors or cleaning*

Garbage cans in hiding

Concealing the garbage can is a sure way to improve your environment, but it's likely to make life tougher for your garbage collector. The system pictured above, for Dr. and Mrs. Charles Vivion of Laramie, Wyoming, keeps both parties happy. Built into a concrete-block garden wall, this bin masks the cans but keeps them easily accessible. Outside the wall and adjacent to the alley where the collection truck goes, the cans can be reached behind two dogproof doors.

Built up from a poured concrete slab which is easy to hose off, this bin is 32 inches high, 58 wide, 29½ deep. On the alley side, two swing-out doors make an opening 29 inches high and 46 inches wide, large enough for two 20-gallon garbage cans. Each door has a spring-handled gate latch. A 4-inch-wide strip of ¼-inch-thick steel supports the blocks above the doors.

A similar bin could be made from almost any fence or wall material. □

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NORMAN A. PLATE

Sloped ceiling *and tubside garden make long, narrow bath seem airy*

Bathroom illusion . . . spaciousness

A roomy bath is a plus in any house, but sometimes it's hard to find space that seems big enough to accommodate one.

The bathroom you see here is only 6½ feet wide. But it stretches a generous 23 feet alongside one wall of the master bedroom. Its sloped redwood plywood ceiling rises to a peak of 16 feet.

Architect Steve Wisenbaker of Ross, California, designed in some devices that give an illusion of spaciousness. A 3½-foot-wide planter between tub and sliding glass doors lets some garden come in and visually pushes the indoor space out. To the right of the planter, a small window opening to the bedroom brings in more of the view towards the deck and a eucalyptus grove just beyond.

The sunken quarry-tiled tub runs the full width of the room, with ledges on all sides for soaps, washcloths, and shampoos. A slanted partition wall divides the bathing area from the other fixtures, with minimal interruption of space.

Cabinets, towel racks, and partition trim are vertical-grain Douglas fir sealed with semitransparent stain. □

Planter window *at right in photograph looks into far corner of master bedroom, which opens onto deck seen in the background*

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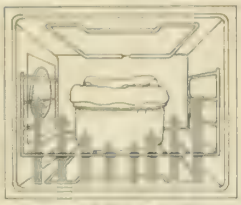

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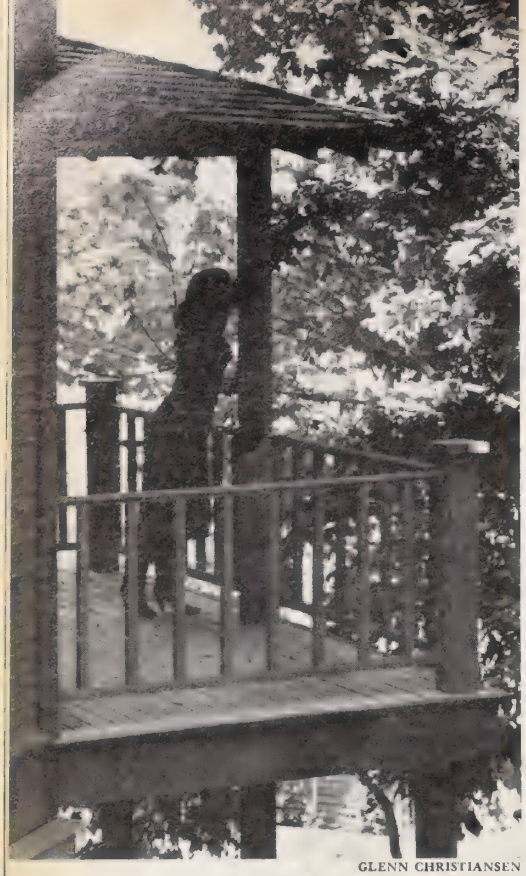


GLENN CHRISTIANSEN

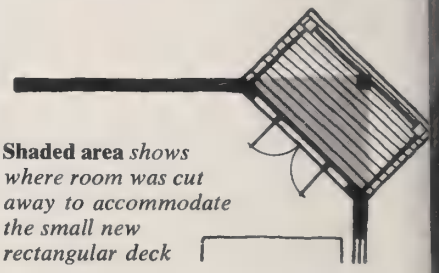
Out into the treetops, *airy new bedroom deck occupies space that was originally inside room*

Diagonal window wall *has double doors leading out to deck. Post visible through doorway marks old room's corner*

Cutting off one corner of Thomas Dant house allowed his upstairs bedroom to b opened to the outdoors. The resultin new diagonal wall is all glass, wi French doors leading out to a dec perched in the trees.

A ledger plate ties the 6- by 12-foot dec to the house; posts tied to footings su port the outer corners. The original ro remains to shelter the deck.

Architect Paul Franks of Martin Sode strom and Matteson, Portland, designe the remodel.



Shaded area *shows where room was cut away to accommodate the small new rectangular deck*

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DOLLAR'S WORTH from Mary Willis

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DARROW M. WAT

Pyramidal staircase *spills invitingly down toward family room and kitchen, making a graceful transition from floor to floor*

The steps also are seating ...indoor bleachers for guests

Like a carpeted sculpture, this staircase widens toward its base to become a stepped, three-sided pyramid. The broad treads offer a comfortable conversation spot, in touch with some of the most-used living areas in Frances and Frank Ma's house in Milpitas, California.

The household ziggurat stands in a two-story space which is open to the family room, kitchen, and dining area. Since each side of the pyramid faces one of these spaces, the steps become a centrally located set of indoor bleachers. Guests can sit here while they talk to people in the kitchen or to others in the family room. Such extra seating is especially convenient during parties, and gives the house a dramatic focal point.

Design is by Bill Stout of Jennings and Stout, architects, San Francisco. □

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NORMAN A. PLATE

Outdoor living *area was created by cutting back bank and putting in retaining wall and two-level deck system*

WALT GORDINIER

Construction view *(left) shows retaining wall of 6 by 6's. Note how 6-by-6 deadmen project through wall to form supports for bench of 2 by 2's (above). Also note how timbers are beveled and alternated at joints*

Into the hill bank . . . retaining wall, big deck

Steps *leading down from deck area are more 6 by 6's. Similar timbers frame the gravel walks*

Beefy materials were required for this landscape project, but it's designed for a light look. We purposely photographed the garden soon after completion to show its construction in a rather stark fashion. In another year, some detailing will be obscured by foliage.

The retaining wall is made of sturdy pressure-treated 6 by 6's (mostly in 8-foot lengths) that are easier to work with and more finished-looking than the railroad ties so often used in similar situations. The 6 by 6's not only tie the wall to the bank but form wallside supports for the bench as well. They're also used for steps and for path edgings.

The wall's angular design increases its stability. A drainage system in behind removes ground water.

Design was by Contemporary Landscaping, in association with landscape architect E. Clark Matschek, for Emily and Ken Oishi of Lake Oswego, Oregon. □

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Top: Canyon, by Steve Solinsky. 8 1/3' × 10 1/2'
Left: Pines, by Philip Hyde. 8 1/3' × 10 1/2'

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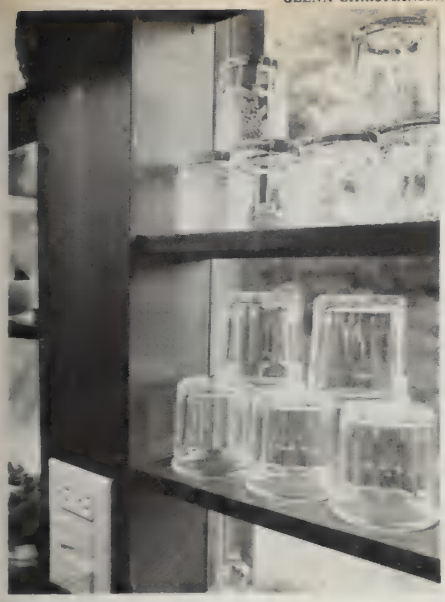
GLENN CHRISTIANSEN



Fir shelves *in kitchen windows hold glassware, still let in light and view*

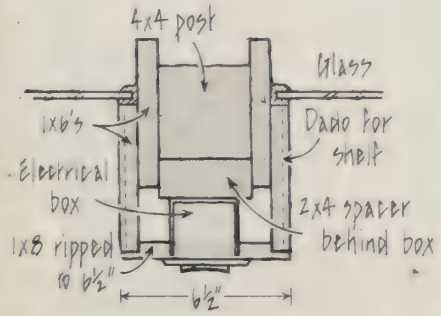
See-through shelves in kitchen window

More storage with no loss of light or view resulted from this window shelf design.

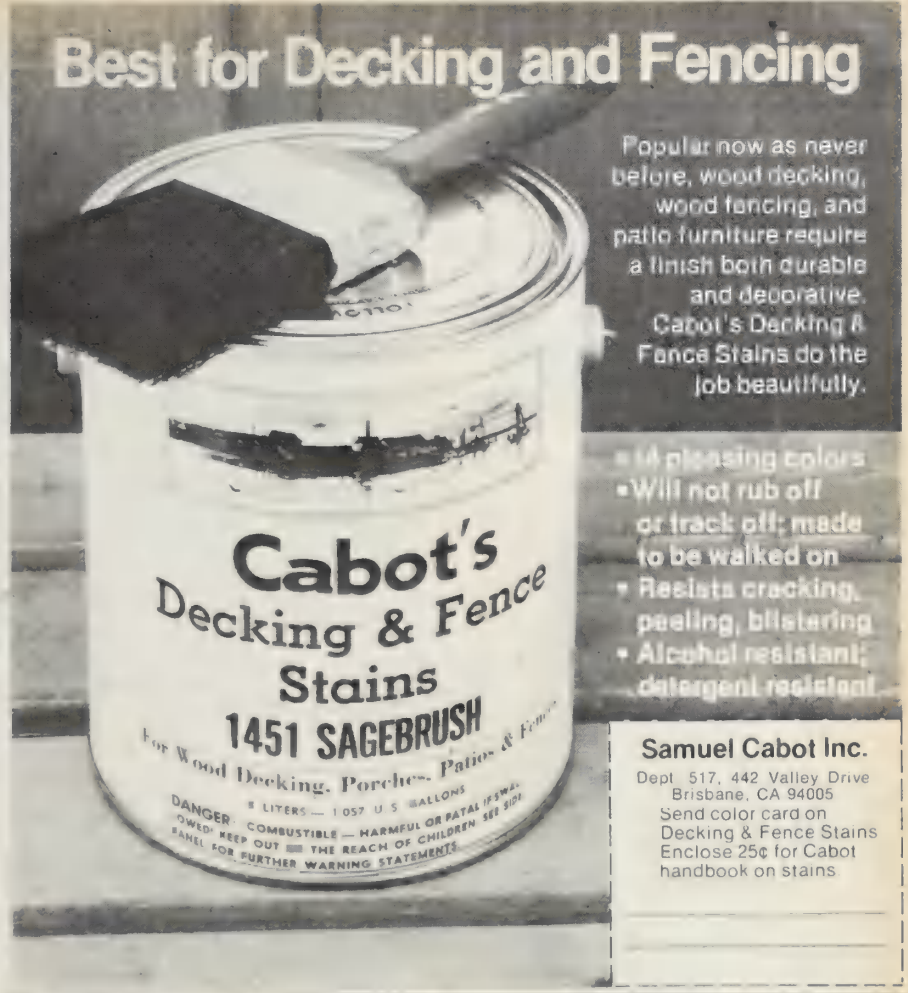
When owner Fred Moore started, 4-by-4 posts flanked by 1 by 6's supported the window wall. In new pairs of 1 by 6's the height of the window frame, Mr. Moore dadoed ⅜-inch-deep slots for shelves, which were cut from more 1 by 6's. He glued the shelves in the slots, then placed the whole unit against the window and nailed the verticals to the existing post 1 by 6's.

In front of the old posts, this created a channel to hold an electrical box for outlets and switches. Mr. Moore closed the front by nailing on 1- by 6½-inch boards (ripped from 1 by 8's); then edges were rabbeted as shown in the diagram, to make neater joints.

Dark stain, dark liquid satin wax, and wet sanding with very fine paper gave a satiny waterproof finish. □



Plan view *shows shelf slots dadoed in sides of 1 by 6's sheathing 4-by-4 posts*



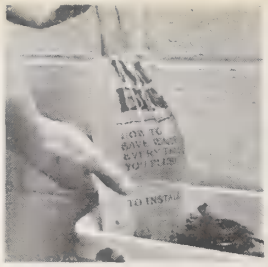
The Changing Western Home®

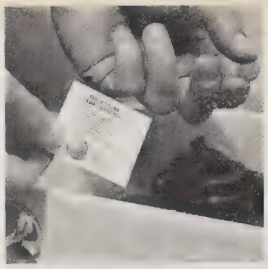
Visitors here hammer their arrival

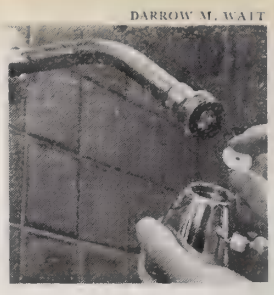
This whimsical door knocker announces that owner Kurt Florman built this house himself.

After finishing work on his house in Cave Creek, Arizona, he retired this hammer for good. He suspended it on a 3/8-inch dowel plugged into two 1-inch dowels that were glued into holes in the doorpost. The striker plate is a chair glide.

DARROW M. WATT







Water conservation kits: free to 2 million California households

Between the third week in May and the end of June, more than 2 million households will receive free water conservation kits.

To be sent to residents of the cities of Los Angeles and Fresno and Orange and Santa Clara counties, the kits contain flow restrictors for shower heads and water displacement bags to reduce the volume of toilet flush cycles. Also included are dye tablets to check for toilet leaks.

To use the displacement bag, fill it with water to a marked line, seal with the enclosed clip, and hang it in the tank behind the mechanism and at the opposite end from the float ball. As most tanks discharge 5 to 7 gallons of water with each flush, the ⅔-gallon displacement won't affect the efficiency of the unit.

Two shower restrictor disks are enclosed. Use the smaller one for heads that don't swivel. Unscrew the head from the lead-in pipe, insert the ring in the head, and screw it back together. Use the larger disk for swivel heads. Follow the same procedure, making sure the rubber ring already on the swivel ball is seated correctly.

To check for toilet leaks, drop the dye tablets into the tank where the displacement bag goes. If there is a leak, the dye-colored water will show up in the toilet bowl after several minutes. Fix the leak or call a plumber; a leak can waste up to 200 gallons of water per day.

The California Department of Water Resources, the sponsor of the program, estimates that 5,600 gallons of water per person per year could be conserved if displacement bags and shower restrictors are both used. As well, energy use, energy bills, and the flow of water to overburdened sewage treatment plants will drop.

If you live outside the participating areas, you may be able to buy similar devices at a hardware store.

Panels below windows let in fresh air

Natural ventilation doesn't necessarily mean windows that open. Here, solid wood panels below double-pane picture windows swing open to let fresh air in. Portland architect Alan Beard built the detail into his houseboat on the Willamette River.

The vent panels were real cost-savers, eliminating any outlay for window hardware and openable frames. All that was needed were the hinges for the panels and a length of chain for the stop. To discourage unwanted visitors, three 1 by 4's run across the outside of the vents. To keep out insects, a screen is mounted on the outsides edges of the 1 by 4's.

When the panels are closed, the wall appears solid.

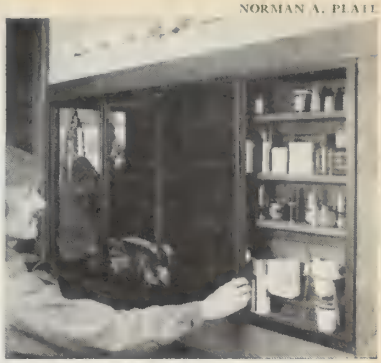
DON NORMARK

This deck is for swingers

The swing at Seattle architect Fred Bassetti's house was an institution. It wouldn't be moved, yet something had to be done about the bare spot in the lawn where swingers pushed off.

Bassetti had craftsman Hendrikus Schraven build the swing platform you see above. It's made of cedar 2 by 2's attached to 2-by-2 stringers. Two sides of the platform are cut to conform to the tree trunk and the slope of the site.

NORMAN A. PLATE



Medicine cabinet from a window

Big custom-made medicine cabinets can be costly, but Dennis and Jeanne Dahlin of Modesto, California, used a money-saving substitute. They had a glass company mount mirrors instead of clear glass in a standard 3- by 5-foot aluminum sliding glass window, then placed it in the wall. The back of the cabinet has ¼-inch-thick redwood battens tacked onto the back of the adjoining room's wall.

GLENN CHRISTIANSEN

Fabric screens create a delicate privacy

These handsome window screens are an inexpensive alternative to curtains. Linda Desimini constructed them for many of the windows in her Portland house.

Different materials were used in each case, but the process is the same. Fabric is mounted on stretcher bars that reach the exact distance between the window stops. The panels simply wedge into the window frames.

Catch-all bins under sink lip

There's usually just a panel mounted below the sink lip on most cabinet trim. Architect Sigmar Hofmann of Riverside, California, decided to use that space for small utensils that often clutter around the sink.

Two plastic bins are mounted on the panel back, which is hinged at the bottom to swing out.

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DARROW M. WATT

Radiating *around central island, kitchen's a comfortably informal conversation spot. Pole ties into living room roof*

Circle around the pole, storage under

Roll-back *tambour door conceals storage in island base*

Something midway between a full-fledged kitchen and a snack bar was wanted in these bachelor quarters in Petaluma, California. The result is a semicircular, carousel-like kitchen that radiates from a central pole support.

At the base of the pole is a 54-inch-diameter butcher-block round. One side cantilevers toward the living room as a snack counter, with knee space below. The other side, with built-in ceramic cooktop, is kitchen work surface, with storage underneath.

A change in floor elevation helps define the boundary between open kitchen and living room. Architect-builders: Haris Tsiringas and Herman Dietterich. □

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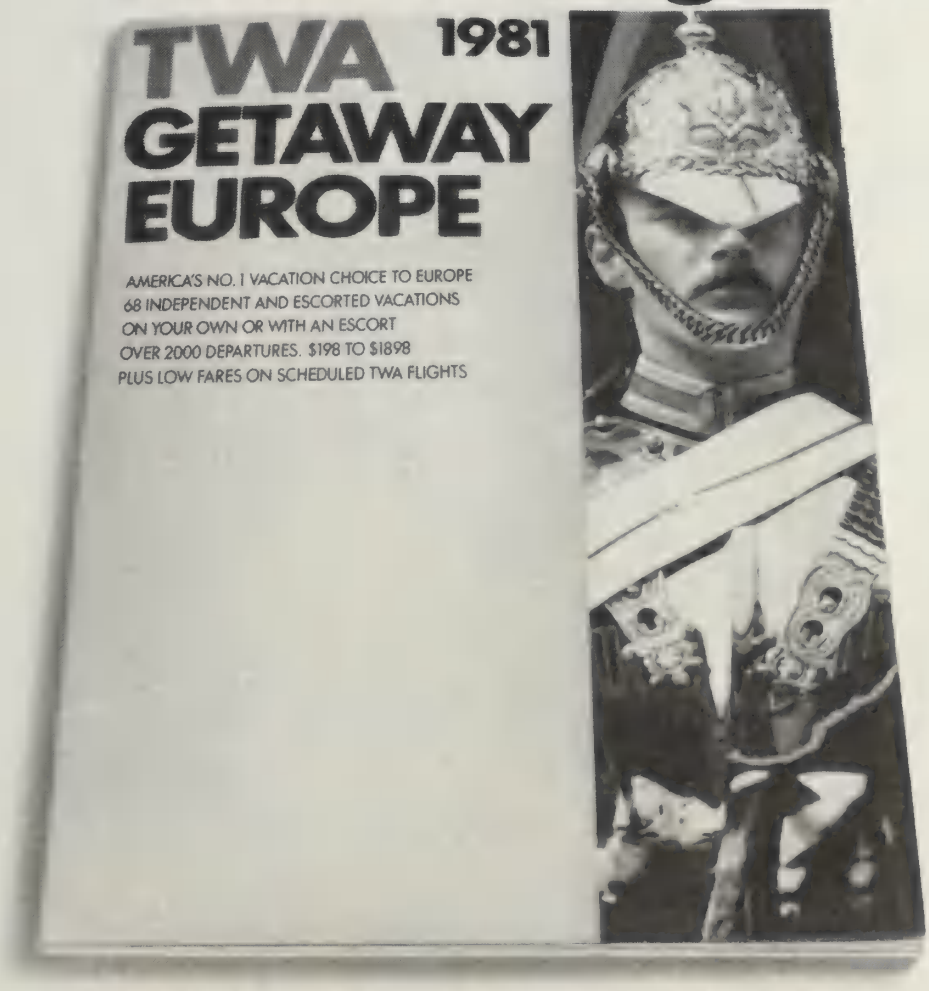

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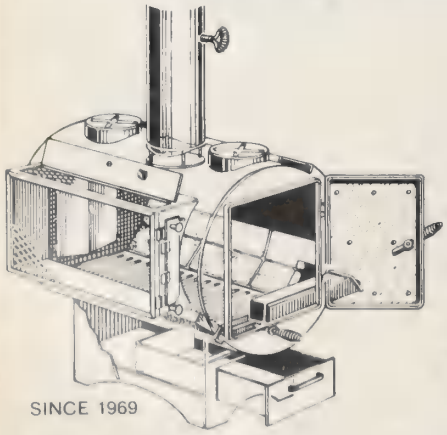

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DARROW M. WATT

Niche with a view: *a private place to read, listen to music, or just relax*

Window in the wall is a curl up space

Curling up with a good book is especially enjoyable in this reading niche designed by San Francisco architect Bill Stout for a Milpitas family.

The 2½- by 4- by 6-foot space combines window, bookcase, and seat in a single opening beside the family room fireplace. The platform above holds a stereo speaker. This maximal use of a small space turns a simple source of light into a cozy retreat. □

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DON NORMARK

Knockdown frame *floats on 2-by-8 piers; dowels form headboard and footboard*

Woodworker's project...bed frame

Considerate design makes this wooden bed frame a success. Six notched blocks raise it 5 inches off the floor—so a vacuum can reach under it. The frame is 4½ inches wider and longer than the mattress and box spring, so there's plenty of room to tuck in bedding. And the frame can be taken apart by unscrewing carriage bolts in the corners.

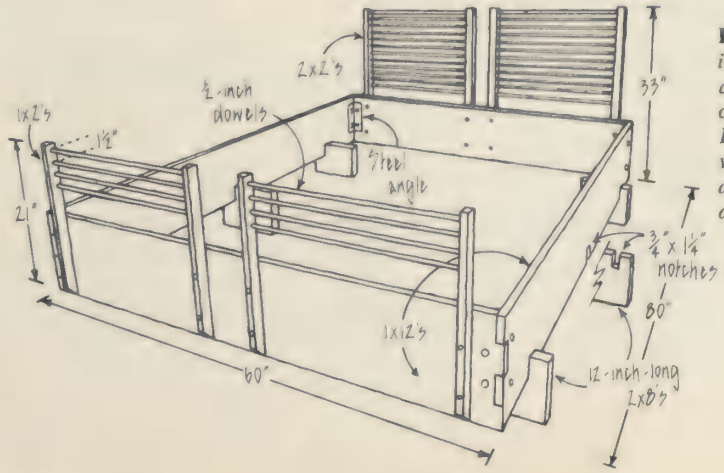
Tom Nelson of Portland designed and built the frame using basic hand tools plus an electric drill and jigsaw. The 60- by 80-inch frame, made of clear fir, fits a standard double-bed mattress, but the basic design could be altered for other sizes. Cost should be about $125.

To build this bed you'll need 32 wood dowels, ½ by 24 inches; 6 feet of 2 by 8; 12 feet of 2 by 2; 8 feet of 1 by 2; 24 feet of 1 by 12; 16 carriage bolts, ⅜ by 1½ inches; 16 carriage bolts, ¼ by 3 inches; and four ¼-inch-thick steel angle plates.

In each corner of the 1-by-12 frame are oversize box joints; their depth is the exact thickness of the wood. Carriage bolts (1½ inches long), which go through the wood and ¼-inch steel angle plates, secure and reinforce the joints.

Three 12-inch-long 2 by 8's with 1¼-inch-deep cross-lap joints support each side of the bed. (Each joint is 2 inches from the outside end.) Matching joints in the bed frame (spaced 30 inches apart) lock the 2 by 8's in place.

The two headboard and two footboard frames are secured in place with 3-inch-long carriage bolts. Both have ½-inch dowels spaced 1½ inches on center, but the headboard verticals are 2 by 2's, the footboard verticals are 1 by 2's. □



Box joints *in frame corners add to the custom look. Bottoms of verticals at head and foot are angled at 45°*

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PETER O. WHITELEY

Uncluttered underside *has minimum of load-bearing members in sight. Owners planted trumpet vine at corner to attract native hummingbirds*

To look down on, to get under

A private bower is just a few steps from the bustle of this Boise home. Owners Carol and Glenn Weyhrich designed and built the small brick patio with overhead trellis as a private garden spot.

Since the Weyhrichs look down on the trellis from their back deck, they made it more interesting visually by building its roof upside down from the way most overhead structures are put together. The 2-by-8 joists have 2 by 4's nailed to their undersides rather than their tops. For a more finished look, ends of these 2 by 8's are cut on an angle.

The roof's weight is carried by two pairs of 2 by 8's, which flank 4-by-4 posts. □

View from house *shows how 2 by 8's overhead stiffen the trellis roof*

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GLENN CHRISTIANSEN

Bracketed shelves *are finished with a light, nonyellowing stain and clear sealer. Trim helps hold shelf contents in place*

Open pine shelves, wood supports

Shelf construction can be an important detail in an open kitchen. Designer Marjory Newman of Los Angeles devised the attractive system shown here.

Shelves are ¾-inch-thick pine boards—graduated in width from 3 inches for spices to 10 inches for pots. She rimmed them with 1 by 2's mitered at the corners and fastened with countersunk finishing nails. This creates ¾-inch lips that help hold contents on shelves.

Using a band saw, Newman shaped support brackets from 1½-inch-thick pine. These graduate in size, too—from 2½ by 5 inches to 6 by 8 inches. Each is notched to receive a shelf-length 1 by 2. She nailed these lengths of 1 by 2 to wall studs with countersunk finishing nails. The brackets are toenailed to the 1 by 2's at the top, nailed through to the studs at the bottom. The shelves are nailed in place along the 1 by 2's. □

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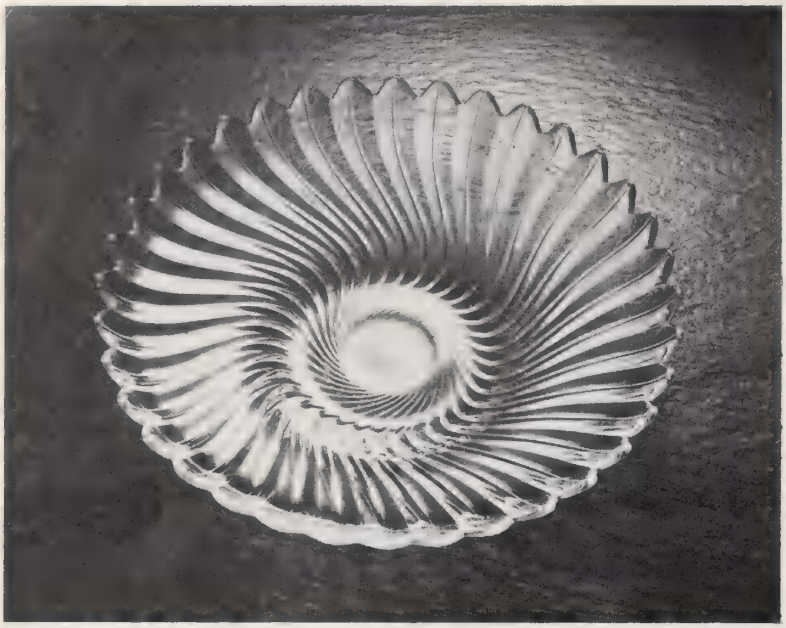

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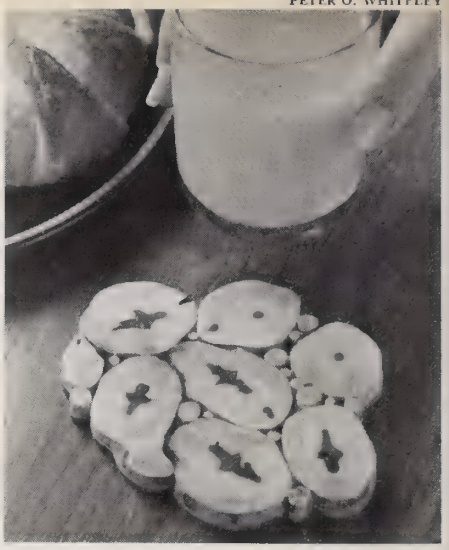
"Les Pensées Cristal" Gift Collection.

Shown: Soleil centerpiece. Gifts begin at $15. For catalogue write: J.G. Durand, Millville, N.J. 08332.

PETER O. WHITFLEY



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Coaster is cluster of tree prunings

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Sand cut pieces individually, rubbing in a circular motion.

Arrange sanded sections in a pattern that forms roughly a 4-inch-diameter circle. When you're satisfied with the arrangement, spread white glue on a small square of plywood, place the cuttings piece by piece on the base; let glue dry.

Then cut the exact perimeter outline with a coping, band, or saber saw; sand edges and apply a waterproof sealer. □

Filling the gaps *are twig cuttings. We peeled bark off all pieces*

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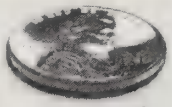

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DON NORMARK

Cover off, *spa is ready to use. Floor tile continues up sides of spa enclosure*

Cushioned lounging space: *pad rests on removable plywood panel set on tub's edge*

Corner lounge is atop the spa

When not in use, this indoor spa becomes the support platform for the cushioned lounging corner you see above. Seattle architect Tom Emrich of The Mithun Associates designed the room as part of a larger addition for Chuck and Charlie Millington, who designed the enclosure.

The spa is built into a framed plywood box faced outside with the same vinyl tiles that cover the floor. A piece of ¾-inch plywood drops into the box and rests on the spa lip to support the foam cushion and bolsters (these store in the playroom next door).

Heater and filter controls for the spa are built into an adjacent cabinet, which rises above the platform level to pinch the pad against two walls. Plants thrive in the damp warmth created by the spa and in overhead light from skylights. □

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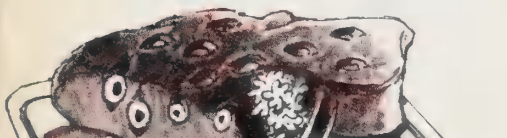
To start company meals on a convivial note, there are bite-size appe-



Each slice of this thick steak reveals colorful pimiento-stuffed green olives

Olive-stuffed Steak Barbecue

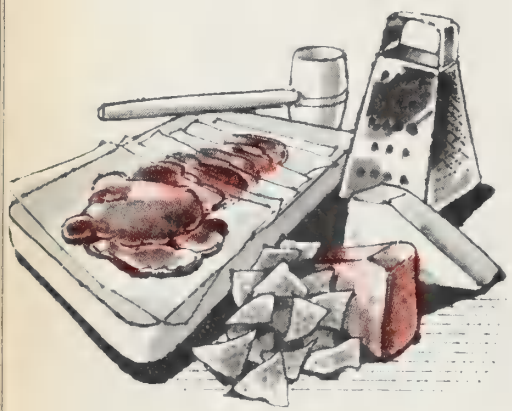
You can butterfly a rump roast to use in this recipe or use boneless chuck.

- 4 pounds boneless beef rump roast or chuck roast
- 1 jar (about 3 oz.) pimiento-stuffed green olives
- ¼ cup *each* wine vinegar and olive oil or salad oil
- 1 package (0.7 oz.) garlic salad dressing mix
- 1 tablespoon instant minced onion
- 1 teaspoon lemon pepper seasoning
- Instant meat tenderizer

If using a rump roast, butterfly it by cutting meat horizontally almost in half, then folding back top half to make one long 2-inch-thick steak.

Drain olives, reserving marinade. Make 1-inch-deep cuts in meat, then push an olive into each cut. Place steak in a plastic bag; rest in a pan. Stir together the olive marinade, vinegar, oil, dressing mix, onion, and lemon pepper; pour over steak. Seal bag with a wire tie. Chill 6 to 24 hours. Sprinkle meat with tenderizer according to package directions.

Grill steak 6 inches above low-glowing coals for 15 minutes on each side for rare, or until done to your liking. To serve, slice thinly across grain. Serves 10.—*L. F., Portland.*



Tuck chilies and cheese inside boned breasts, then roll in tortilla chips

Fresno Chicken Breasts Olé

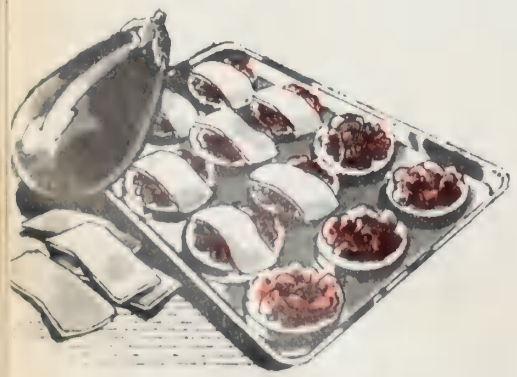
Let guests top individual servings with sour cream and taco sauce.

- 3 whole chicken breasts, split
- 1 can (4 oz.) diced green chilies
- 1 can (2¼ oz.) chopped black olives
- ¾ cup *each* shredded Cheddar and jack cheese
- 3 tablespoons finely chopped onion
- ⅓ cup melted butter or margarine
- ¼ teaspoon *each* chili powder and ground cumin
- About 1 cup crushed tortilla chips
- Sour cream and taco sauce

Remove skin and bone from breasts. Between sheets of waxed paper, pound each to ¼-inch thickness.

Drain chilies and olives and combine with the cheeses and the onion. Divide into 6 equal portions; sprinkle one portion down center of each breast. Roll chicken around filling, folding in ends and securing with wooden picks. Combine the butter, chili powder, and cumin. Coat rolls with butter mixture, then roll in crushed tortilla chips.

Arrange chicken rolls, seam side down, in a shallow greased casserole. Bake in a 375° oven for 30 minutes or until no longer pink near center. Serve with sour cream and taco sauce. Serves 3 to 6.—*A. D., Fresno, Calif.*



Tender-baked eggplant slices form the base for these pizza-flavored rounds

Eggplant Pizzas

Offer these as a main dish or as an accompaniment to barbecued meats.

- About 2 pounds eggplant
- 1½ tablespoons butter or margarine
- 3½ tablespoons salad oil
- 1 medium-size onion, chopped
- 1 clove garlic, minced or pressed
- ½ pound mushrooms, sliced
- 1 medium-size green pepper, diced
- 1 large can (15 oz.) tomato sauce
- ¼ teaspoon *each* oregano and marjoram leaves, dry basil, salt, and pepper
- 6 slices jack or mozzarella cheese
- ¼ cup grated Parmesan cheese

Cut eggplant into 12 ½-inch-thick slices. Discard ends.

Melt butter with 2 tablespoons of the oil in a 10- by 15-inch jelly-roll pan in a 400° oven. Turn eggplant slices in fat to coat. Bake on lowest rack of a 400° oven for 20 minutes per side.

In a frying pan, sauté the onion, garlic, mushrooms, and green pepper in remaining oil until onion is limp and juices evaporate. Stir in the tomato sauce, oregano, marjoram, basil, salt, and pepper. Simmer, uncovered, 10 minutes. Divide evenly between eggplant slices; top each with a half slice of cheese and sprinkle with Parmesan. Broil just until cheese melts. Serves 4 to 6.—*L. H., Fair Oaks, Calif.*

zer turnovers. Our dessert is a cake oll with a fluffy strawberry filling.

To share your favorite entertaining ecipes, send them to *Sunset Maga-ine,* Menlo Park, Calif. 94025. We ay $25 for each recipe published.

What's for May? Olive-stuffed steak, Fresno chicken, eggplant pizzas

Cocktail Turnovers

A cream-cheese pastry is the wrapper or these meat-filled appetizers.

- 1 package (8 oz.) cream cheese
- 1 cup butter or margarine
- 1½ teaspoons salt
- 2 cups all-purpose flour
- 1 small (5 oz.) potato
- 1 small onion
- ½ pound lean ground beef
- 1 clove garlic, minced or pressed
- ¼ teaspoon *each* marjoram leaves and pepper
- ½ teaspoon oregano leaves
- 1 egg yolk beaten with 2 tablespoons milk

Beat together the cream cheese, the butter, and ½ teaspoon of salt; slowly mix in the flour to make a stiff dough. Cover and chill at least 4 hours.

Finely chop the potato and onion in a food processor or by hand; blend with beef, garlic, marjoram, pepper, oregano leaves, and the remaining 1 teaspoon salt.

On a lightly floured board, roll dough into a ⅛-inch-thick rectangle, then cut into 2½-inch squares. Place 1 teaspoon filling on each square. Fold dough over to make triangles; press edges with a fork to seal. Brush with egg yolk mixture and bake in a 350° oven for 25 minutes. Makes 4 to 5 dozen appetizers.—*S. R., Butte, Mont.*

Offer a basket of these mini-turnovers with wine coolers or another beverage

Springtime Avocado Salad

Whirled cottage cheese and avocado give this salad a creamy texture.

- 1 package (3 oz.) lime-flavored gelatin
- 1 cup boiling water
- 1 large avocado
- 1 cup cottage cheese
- 1 tablespoon lemon juice
- ¼ cup orange juice
- ½ teaspoon *each* salt and grated orange peel
- ¼ teaspoon liquid hot pepper seasoning
- 2 to 3 large oranges, peeled and cut into sections

Dissolve the gelatin in the boiling water; refrigerate until syrupy.

Meanwhile, peel, pit, and halve avocado. In a blender container, combine half the avocado with the cottage cheese, lemon and orange juices, salt, peel, and pepper seasoning; whirl until smooth.

Cut the remaining avocado and ⅔ of the orange sections into ½-inch pieces. Fold these into the syrupy gelatin, along with the cottage cheese mixture, until blended. Turn into a 1-quart mold and chill until firm.

To serve, unmold salad onto a platter; surround with the remaining orange sections. Serves 6 to 8.—*K. S., Los Angeles.*

Decorate this tangy avocado salad mold with lettuce leaves and orange slices

Strawberry-Cream Cake Roll

To serve, dust with powdered sugar.

- 4 eggs, separated
- ¾ cup sugar
- 1 teaspoon vanilla
- ¾ teaspoon baking powder
- ¾ cup cake flour
- ¼ teaspoon salt
- Powdered sugar
- Berry filling (recipe below)

Grease a 10- by 15-inch jelly-roll pan. Line with waxed paper; grease paper.

In a small bowl, beat the egg yolks until lemon-colored; gradually beat in the sugar and vanilla until creamy. Stir baking powder into flour; gradually beat into yolk mixture.

Beat egg whites and salt until stiff peaks form. Fold in yolk mixture just until blended. Turn into prepared pan and bake in a 375° oven for 10 to 12 minutes. Invert cake onto a towel coated with powdered sugar; peel off paper. Roll up from a short end; cool.

Unroll cake, spread with filling, reroll, and chill. Serves 8 to 10.—*S. B., Boulder City, Nev.*

Berry filling. Beat 1 egg white until soft peaks form. Gradually beat in ¼ cup sugar until stiff peaks form. Fold in ½ cup whipping cream, whipped; ½ cup mashed strawberries; and 1 teaspoon vanilla.

Spoon sweetened berries over slices of this strawberry cream-filled cake roll

Bargain-priced elegance. You must do a little work

Buy breast of veal. Make a pocket. Stuff it

Most cuts of veal are expensive these days, but breast of veal is an exception. With a few extra ingredients and a little ingenuity, this bargain-priced meat can be turned into elegant company fare.

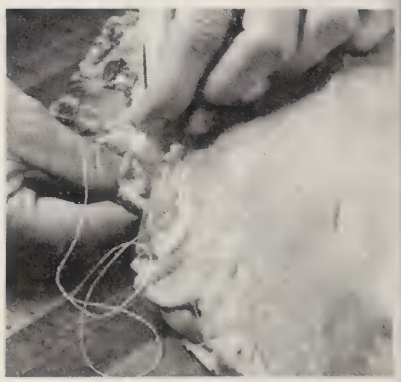
To accomplish this, we used a colorful filling of ground meat and vegetables to stuff the veal—an easy task, since the breast separates naturally to form a pocket. To fill the pocket, you can choose a spicy ham filling with a contrasting center layer of fresh spinach or a savory pork filling that encloses halved cooked carrots.

After the veal breast is stuffed, it's sewn up with a heavy needle and thread and oven-braised in a flavorful mixture of broth and wine. At serving time, the cooking liquid is thickened to make a rich sauce to spoon over individual servings of the meat and stuffing.

1 · *Separate veal at natural opening; cut almost through to form pocket*

2 · *Spoon half filling over bony part; keep 1 inch from outer edge*

3 · *Arrange vegetables over filling; add remaining filling; pat firmly*



4 · *Take a stitch between each rib to hold stuffing in pocket*

Meat- and Vegetable-stuffed Veal Breast

- Choice of pork-and-carrot or ham-and-spinach stuffing (recipes follow)
- 3½ to 4 pounds veal breast
- 2 tablespoons butter or margarine, softened
- Salt, pepper, and thyme leaves
- 3 beef bouillon cubes dissolved in 2 cups hot water
- ½ cup dry sherry (for pork filling) or tawny port (for ham filling)
- 2½ tablespoons cornstarch mixed with 2½ tablespoons water

First prepare your choice of stuffings.

Lay breast, bone side down, on flat surface. To start the pocket (step 1), you pull the breast apart at its membrane. With a knife, you then slit veal almost through to other side. Spoon ½ of the prepared stuffing along bottom of breast (step 2); pat firmly. Arrange carrots (or spinach) on top (step 3), then pat remaining stuffing over vegetables. Pull top half over filling and sew open edge (step 4) with a heavy needle and thread.

Place the breast, bone side up, in a roasting pan coated with half the butter. Spread with remaining butter; lightly sprinkle with salt, pepper, and thyme.

Mix together the broth and sherry (or port) and pour into roasting pan around veal. Cover pan with foil and roast in a 375° oven for 2 hours or until meat is very tender when pierced with a fork. Uncover and continue roasting 20 minutes or until top is richly browned.

Place on serving plate and let veal stand at least 10 minutes before cutting between ribs to serve.

Pour broth mixture into a saucepan; stir in the cornstarch mixture. Cook, stirring, over high heat until sauce boils and thickens. Pass sauce to ladle over individual servings. Makes about 6 servings.

Ham-and-Spinach Stuffing

- 1 large bunch (1¼ lbs.) spinach
- 3 tablespoons butter or margarine
- 1 medium-size onion, chopped
- 1 egg
- ¼ cup milk
- 2 slices firm-textured white bread, broken into ½-inch pieces
- ½ pound ham, ground in a food chopper or food processor until medium-fine
- ½ pound lean ground beef
- ¼ cup finely chopped parsley
- 1 teaspoon *each* dry mustard and crushed fennel seed
- ¼ teaspoon pepper
- 1 cup (4 oz.) shredded Swiss cheese

GLENN CHRISTIANSEN

Serve braised veal breast *by carving between ribs. Each slice reveals bits of colorful vegetables in a savory meat stuffing*

rim tough end of stems from spinach aves and wash thoroughly.

Melt 1½ tablespoons of the butter in a rying pan set over medium heat. Add he spinach to pan with just the water hat clings to the leaves. Cover pan and ook 3 minutes or just until leaves are vilted. Drain spinach and set aside.

Melt remaining 1½ tablespoons butter n the frying pan; add the onion and ook, stirring, until limp.

n a bowl, beat together the egg and milk. Add the bread pieces and let stand 5 minutes to soak. Add the onion, ham, beef, parsley, mustard, fennel, pepper, and cheese. Using a wooden spoon or your hands, mix until well blended.

Pork-and-Carrot Stuffing

- 4 whole thin carrots, peeled
- 3 tablespoons butter or margarine
- 1 medium-size onion, chopped
- ½ pound mushrooms, sliced
- 1 clove garlic, minced or pressed
- 1 egg
- ¼ cup dry sherry or milk
- 2 slices firm-textured white bread, broken into ½-inch pieces
- ¾ pound lean ground pork
- ¼ cup finely chopped parsley
- ¾ teaspoon *each* thyme leaves and salt
- ¼ teaspoon pepper
- 1 cup (4 oz.) shredded Swiss cheese

Place the carrots in a frying pan with 1 inch of boiling water; cover and cook 15 minutes or until fork-tender. Drain, cut carrots in half lengthwise, and set aside.

In the frying pan, melt the butter over medium-high heat. Add the onion, mushrooms, and garlic and cook, stirring, until onion is limp and all of the liquid has evaporated.

In a bowl, beat together the egg and sherry; add the bread pieces and let soak 5 minutes. Add the mushroom mixture, pork, parsley, thyme, pepper, and cheese. Using a wooden spoon or your hands, mix until thoroughly blended. □

DARROW M. WAT

Capture the flavor *of fresh herbs (clockwise from left): wine vinegar with thyme sprigs for salads; rosemary-flavored cream cheese ball; marjoram mayonnaise for artichokes and salads; pineapple sage and mint in sour cream dressing for berries; chive butter for vegetables*

Our garden herbists as kitchen herbists

Add a different sprig of greenery, and familiar foods take on new character. Here we present five simple ideas from Oregon herb growers Linda Bowers and Gretchen Hall (see page 113). The recipes combine popular culinary herbs (if your own garden can't provide them, pick up a supply from a well-stocked produce market) with two or three other ingredients you may already have on hand to make dressings, dips, and spreads with bold, fresh herb flavor.

White Wine Herb Vinegar

Use in vinegar-oil dressings for mixed green salads or sliced tomatoes or in marinades for lightly cooked vegetables such as cauliflower, mushrooms, or artichoke hearts.

Rinse and pat dry enough fresh herb sprigs to fill a glass jar loosely. Use tarragon, burnet, thyme, or a combination of equal parts lemon thyme and marjoram or oregano. If desired, also add 1 large clove garlic (peeled). Fill jar with white wine vinegar, cover with waxed paper or plastic wrap, and secure lid. Let steep at room temperature for 3 weeks, then strain through several layers of cheesecloth. Keeps several months.

Herb and Walnut Cream Cheese Ball

Serve as an appetizer surrounded by assorted crackers and crisp vegetable sticks. The lemon verbena is especially good with sweet crackers and wedges of fruit such as apples or pears.

In a bowl, combine 2 packages (8 oz. *each*) cream cheese or Neufchâtel cheese (at room temperature) with 4 teaspoons lemon juice and about ¼ cup chopped rosemary (pull leaves off woody stems) or lovage *or* about ½ cup lemon verbena. Mix well; stir in ¾ cup finely chopped walnuts. Shape into a ball and chill until firm.

On a board, combine ½ cup more finely chopped nuts and 2 to 3 tablespoons more of the chopped herb. Gently roll and press cheese ball into nut mixture to coat. Cover and chill until ready to serve. Keeps about 2 weeks.

Fresh Herb Mayonnaise

Use in dressing for mixed green salads, over sliced tomatoes, or as a spread for egg or chicken salad sandwiches.

To 1 cup mayonnaise, add 2 teaspoons lemon juice and about ½ cup chopped basil, dill, marjoram, oregano, or savory *or* about ¼ cup tarragon. Stir well and chill overnight. Keeps about 1 month.

Sweet or Savory Cream Dip

Use as a salad dressing or dip for crisp vegetables. The dill or fennel is especially good with poached fish or in deviled eggs. Try the pineapple sage-mint combination over fresh fruit.

To 1 cup sour cream or unflavored yogurt, add about ¼ cup chopped basil, dill, fennel, or thyme (add salt and pepper to taste) *or* ¼ cup *each* chopped pineapple sage and mint (sweeten to taste with honey or sugar). Stir well and chill overnight. Keeps about 2 weeks.

Whipped Herb Butter

Melt over lightly steamed vegetables (such as carrots, peas, green beans, or new potatoes), over baked potatoes, or in omelets; or spread on biscuits.

In a blender or food processor, combine 1 cup (½ lb.) butter or margarine (at room temperature) with 2 teaspoons lemon juice and about ⅓ cup finely chopped basil, chives, marjoram, oregano, or savory. Whirl until thoroughly blended and spoon into a small bowl. Chill overnight. Keeps about 2 weeks. □

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3 cups plus 6 measuring tablespoons unsifted flour
1½ measuring teaspoons baking soda
1½ measuring teaspoons salt
1½ cups butter, softened
1 cup plus 2 measuring tablespoons sugar
1 cup plus 2 measuring tablespoons firmly packed brown sugar
1½ measuring teaspoons vanilla extract
3 eggs
One 18-oz. pkg. (3 cups) Nestlé Semi-Sweet Real Chocolate Morsels
1½ cups chopped nuts

Preheat oven to 375° F. In small bowl, combine flour, baking soda and salt; set aside. In large bowl, combine butter, sugar, brown sugar and vanilla extract; beat until creamy. Beat in eggs. Gradually add flour mixture, mix well. Stir in Nestlé Semi-Sweet Real Chocolate Morsels and nuts. Divide dough into halves. Drop one of these halves (for 6 dozen cookies) by rounded teaspoonfuls onto ungreased cookie sheets.
BAKE at 375° F.
TIME: 8-10 minutes.

Wrap remaining dough in waxed paper. Chill one hour until firm. Divide the dough into halves. On waxed paper, shape each dough half into a 9" roll. Roll in waxed paper, refrigerate up to 1 week or freeze up to 8 weeks. To bake: preheat oven to 375° F. Cut each chilled roll into nine 1" slices. Cut each slice into 4 quarters. Place on ungreased cookie sheets.
BAKE at 375° F.
TIME: 8-10 minutes.
Total recipe makes 12 dozen cookies.

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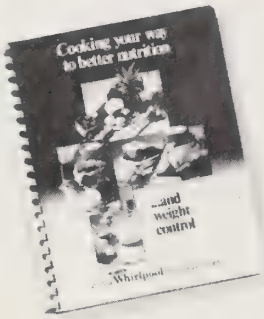

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NORMAN A. PLATE

For quick appetizers, *mound shells with easy-to-make filling*

Tasty starters . . . almost instant

Flaky, cheese-flavored pastry shells are the base for these tempting appetizers. You can bake the shells ahead of time and freeze them to use as needed. For last-minute hors d'oeuvres, just thaw shells and spoon in your choice of filling.

Cheddar Cheese Pastry Shells

- 1 cup all-purpose flour
- ½ teaspoon salt
- ⅓ cup solid shortening
- ½ cup shredded sharp Cheddar cheese
- 1 tablespoon sesame seed or poppy seed
- 2 to 3 tablespoons water

In a bowl, combine the flour and salt. With a pastry blender, cut in the shortening until mixture resembles coarse meal. Add cheese and seeds; gradually mix in water until mixture holds together. Wrap and chill at least 20 minutes.

Divide the dough in half; on a lightly floured board, roll half at a time to ⅛ inch thick. Cut into 2½-inch rounds. Pat into bottom of well-greased small muffin pans (about 1½ inches across the bottom). Bake in a 450° oven for about 7 minutes or until lightly browned. Remove from pans and cool on racks. If made ahead, quick-freeze shells, then stack and pack airtight in rigid containers. To use, heat uncovered in a 350° oven for 3 to 4 minutes. Makes 35 to 40 shells.—*M. B., Walnut Creek, Calif.*

Jack Pastry Shells. Follow recipe for Cheddar Cheese Pastry Shells, except substitute ½-cup shredded jack cheese for the Cheddar and ½ teaspoon cumin seed for the sesame seed.

Parmesan Pastry Shells. Follow recipe for Cheddar Cheese Pastry Shells, except omit salt and substitute ½-cup grated Parmesan cheese for the Cheddar and ½ teaspoon *each* dry basil and oregano leaves for the sesame; increase the water to 4 to 5 tablespoons.

Fillings for Cheese Appetizers

For each 20 cheese shells, you'll need about 1 cup filling. Choose from ¾ cup cubed cooked or canned (about 5 oz.) chunk chicken or small cooked shrimp; 1 can (about 6½ oz.) tuna, drained; or 3 hard-cooked eggs, chopped. Stir 2 to 2½ tablespoons mayonnaise into the filling until blended. Fill each shell with a rounded teaspoon of the filling and garnish with chopped green onion, chopped parsley, or olive slices. □

Cut circles *of cheese-flavored pastry and pat them into muffin pans to bake*

'HE SUMMER ON ICE SALAD BAR... :ALIFORNIA AVOCADOS.

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'ASTA SALAD PRIMAVERA

'our 1 8-oz. bottle KRAFT Italian Dressing over 3 cups cooked shell ıacaroni, 2 cups tomato wedges, 1½ cups zucchini slices, ¼ cup hopped parsley and 2 tablespoons green onion slices. Cover; marinate ı refrigerator 2 hours. Drain, reserving marinade. Arrange 2 California ıvocados, peeled, sliced on a lettuce-covered platter; top with pasta ıixture. Serve with reserved marinade.

3RAVO AVOCADO

'our 1 8-oz. bottle KRAFT Golden Blend Italian Dressing over 2 cups ıushrooms, 1 cup each cherry tomatoes and green pepper chunks and cooked shrimp. Cover; marinate in refrigerator 2 hours.)rain; reserving marinade. Cut 2 California Avo-:ados in half. For each salad, arrange veg-:tables on skewer; fill avocado half vith reserved marinade and garnish with shrimp.

Kraft Salad Days are here

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DARROW M. WATT

Four-person omelet *holds ham cubes and several kinds of tender squash*

Garden omelet . . . garden frittata

Skillet frittata *has chunks of zucchini and green beans; serve hot or at room temperature*

A bounty of fresh vegetables add color and crispness to these quick, family-size egg dishes. Serve either one as a light brunch or supper or as a hearty breakfast.

Puffy Vegetable Omelet

In a 2-quart saucepan, melt 1 tablespoon butter or margarine over medium heat; add 1 small onion (chopped), 1 clove garlic (minced or pressed), ½ teaspoon dry basil, 2 tablespoons lemon juice, and a dash pepper. Cook, stirring, until onion is limp, 5 to 6 minutes, then set aside. Cut 3 small squash (choose zucchini, yellow crookneck, pattypan, or a combination) into ¼- to ½-inch-thick slices and cut 4 ounces boiled ham into ½-inch cubes; set aside.

In large bowl of an electric mixer, beat whites of 4 eggs at highest speed to form soft but moist peaks. In small bowl, beat yolks until lemon-colored. Gently fold whites into yolks.

In a 10- or 12-inch frying pan with an ovenproof handle, melt 1 tablespoon butter or margarine over medium heat. Spread egg into pan and cook, uncovered, for 3 to 4 minutes or just until bottom begins to brown. Then bake, uncovered, in a 350° oven for 12 to 15 minutes or until a wooden pick inserted into center comes out clean.

Meanwhile, return onion mixture to medium heat; add squash and ham and cook, stirring, 7 to 8 minutes or until squash is tender-crisp; keep hot.

To serve, loosen omelet from pan and slide onto a platter. Heap vegetable filling onto half of the omelet; fold gently to enclose. Makes about 4 servings.

Cheese and Vegetable Frittata

- 6 eggs
- ¼ teaspoon pepper
- ½ cup (about ⅛ lb.) shredded Cheddar cheese
- 3 slices bacon or 1½ tablespoons butter or margarine
- 1 small onion, chopped
- 5 or 6 green beans, cut in 1-inch pieces
- 2 cloves garlic, minced or pressed
- 2 small squash (zucchini, yellow crookneck, pattypan, or a combination), cut into ½-inch cubes
- ¼ cup grated Parmesan cheese

Slightly beat eggs and pepper; stir in Cheddar cheese and set aside.

In a 10-inch frying pan with ovenproof handle, cook bacon (if used) over medium heat until crisp; remove from pan, drain on paper towels, and crumble.

Drain bacon drippings from pan, measure, and return 1½ tablespoons to pan (or use butter). Place over medium heat. Add onion, green beans, and garlic and cook, stirring, until onion is limp, about 5 minutes; add squash and cook, stirring, until squash is tender-crisp, 7 to 8 minutes. Reduce heat to low and pour eggs over squash. Lifting outer edges so uncooked part flows to bottom of pan, cook until the egg mixture is creamy and set, about 6 minutes.

Sprinkle top evenly with bacon and Parmesan cheese and set under a broiler for 1 to 2 minutes to brown top in spots. Serve hot or at room temperature. Serves about 4.—*C. Z., Glendora, Calif.* □

50 Years

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2⅓ cups Bisquick® baking mix
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3 tablespoons margarine or butter, melted
½ cup milk
¾ cup chilled whipping cream
Sweetened sliced strawberries

Heat oven to 425°. Mix baking mix, sugar, margarine and milk until soft dough forms. Gently smooth dough into ball on cloth-covered board dusted with baking mix. Knead 8 to 10 times. Roll dough ½ inch thick. Cut with 3-inch cutter dipped in baking mix. Bake on ungreased cookie sheet until golden brown, 10 to 12 minutes. Beat whipping cream in chilled bowl until stiff. Split shortcakes, spoon strawberries between halves and over tops. Top with whipped cream. 6 servings.

Pan Shortcake: Do not knead. Spread in ungreased round pan, 8 x 1½ inches. Bake 15 to 20 minutes.

High Altitude Directions (3500 to 6500 feet): Heat oven to 450°. For Pan Shortcake, use round pan, 9 x 1½ inches. Bake about 15 minutes.

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Small indulgences ...buttery cookies

he month of May is punctuated with pecial receptions and tea parties—occaons that often call for small indulgences ke these buttery cookies.

Here are three of our favorite tea cookes, all easy to make. You start with -inch balls of dough to form all of the ookies, but they look quite different fter baking. They make an attractive isplay arranged together on a tray.

The eggnog cookies are spread with rumavored icing after they are baked, then opped off with nuts, coconut, or candied herries. The almond cookies are rolled n chopped nuts until coated, then flatened with a fork into crisscross designs. The lemon balls become plump little pilows when baked, and are then dusted vith powdered sugar.

You can make all three of the cookies head and freeze them to wait for the big occasion. Pack them carefully in rigid containers with waxed paper beween the layers. Allow cookies to thaw completely in the closed containers at room temperature.

Iced Eggnog Cookies

- 2 cups all-purpose flour
- 2 teaspoons ground nutmeg
- ½ teaspoon salt
- 1 cup (½ lb.) butter or margarine
- ¾ cup sugar
- 2 teaspoons *each* vanilla and rum flavoring
- 1 egg
- Rum icing (directions follow)
- Chopped nuts, coconut, or candied cherries (optional)

Combine the flour, nutmeg, and salt. In a bowl, beat the butter with sugar until creamy; beat in the vanilla, rum flavoring, and egg until fluffy. Stir in the flour until blended. Cover the bowl and chill at least 2 hours.

With floured hands, form dough into 1-inch balls. (If crumbly, let dough stand at room temperature about 15 minutes.) Place balls on ungreased baking sheets about 1 inch apart. Bake in a 350° oven for 12 to 15 minutes or until lightly browned. Remove from pan and cool on wire racks.

Frost cooled cookies with rum icing, then garnish with nuts, coconut, or cherries, if you wish. After icing sets up, store cookies, with waxed paper between layers, in covered containers up to 3

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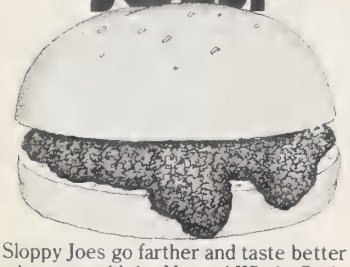

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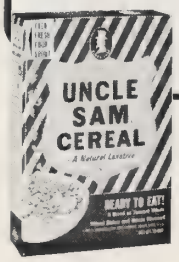

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days, or freeze. Makes about 4 dozen. —*K. K., Moraga, Calif.*

Rum icing. Beat together ¼ cup (4 tablespoons) butter or margarine, 1 teaspoon rum flavoring, ½ teaspoon vanilla, and 2½ cups unsifted powdered sugar. Add 2 to 3 tablespoons milk to obtain a good spreading consistency.

Almond Crisscross Cookies

- 1 cup (½ lb.) butter or margarine
- ½ cup unsifted powdered sugar
- ½ teaspoon *each* vanilla and almond extract
- 2 cups all-purpose flour
- ¼ teaspoon salt
- About 1 cup finely chopped almonds

In a bowl, beat the butter until creamy, then beat in sugar, vanilla, and extract until fluffy. Mix in flour, salt, and ½ cup of the almonds until blended.

With floured hands, form dough into 1-inch balls. Roll balls in remaining ½ cup almonds to coat, then place about 1½ inches apart on lightly greased baking sheets. Flatten with the tines of a fork, dipped in flour, in a crisscross pattern about 1½ to 2 inches across. Bake in a 325° oven for 20 to 25 minutes or until lightly browned.

Remove cookies from pan and cool on wire racks. Store tightly covered at room temperature for up to 3 days or freeze with waxed paper between layers. Makes about 4 dozen.

Lemon Butter Balls

- ½ cup (¼ lb.) butter or margarine
- ⅔ cup sugar
- 2 teaspoons grated lemon peel
- 1 egg
- 1¾ cups all-purpose flour
- ½ teaspoon salt
- ¼ teaspoon *each* soda and cream of tartar
- 3 tablespoons lemon juice
- 1 tablespoon water
- ½ cup finely chopped blanched almonds
- About ½ cup powdered sugar

In a bowl, beat the butter, sugar, and lemon peel until creamy. Beat in egg until fluffy. Combine the flour with salt, soda, and cream of tartar; add to creamed mixture alternately with the combined lemon juice and water. Mix just until blended. Stir in the nuts.

With floured hands, form the dough into 1-inch balls; place about 1 inch apart on ungreased baking sheets. Bake in a 350° oven for 15 to 18 minutes or until very light brown and firm to touch.

Carefully remove cookies to wire racks, cool 5 minutes, then gently shake a few at a time in a small bag of powdered sugar. Cool completely. If not served the same day, freeze in rigid containers with waxed paper between layers. Dust with powdered sugar again just before serving. Makes about 3½ dozen.—*K. M., Moraga, Calif.* □

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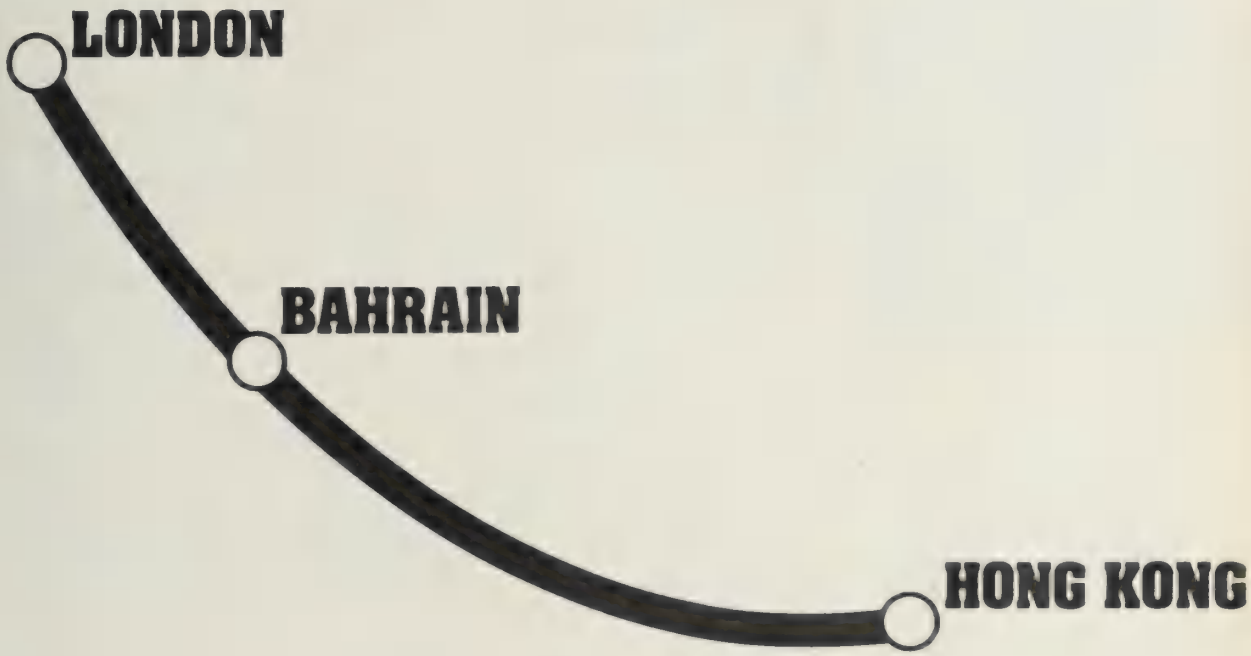

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DARROW M. WATT

Pebbled *with crunchy sesame seeds, tortillas are a flavorful change from bread*

Lively tortillas ...easy to make

With little effort, you can make fresh, chewy flour tortillas. And to give them a lively taste, add your choice of toasted sesame seed, rye with caraway, or whole wheat with wheat germ.

Just heat and serve with butter and a favorite soup or stew. Or use them as you would regular flour tortillas.

Sesame Seed Tortillas

- ½ cup sesame seed
- 3 cups all-purpose flour
- 2 teaspoons baking powder
- ¾ teaspoon salt
- ¼ cup solid vegetable shortening
- 1 cup warm (about 110°) water

Toast sesame seed in a 350° oven, shaking pan occasionally, for 10 to 12 minutes or until golden; cool.

In a large bowl, combine toasted sesame seed, flour, baking powder, and salt; cut in shortening, using a pastry blender or two knives, until mixture is in fine crumbs. Add water and stir to mix well, then turn onto a floured board. Knead, adding more flour if necessary, just until dough is well blended and smooth, about 4 to 5 minutes. Cover with plastic wrap and let stand for about 30 minutes.

Divide dough into 12 equal pieces. Shape each into a ball and press flat on a floured board to form a circle, then roll out to form a thin 8- or 9-inch tortilla.

To cook, place tortillas, one or two at a time, on a hot (375° to 400°), ungreased griddle or heavy metal pan; bubbles should form underneath the surface almost immediately. Cook, flipping over several times, for 2 to 3 minutes, or until surface begins to brown.

Stack tortillas as they are cooked and cover with foil to keep warm. If making ahead, cool on a rack, then wrap and refrigerate for 2 to 3 days; freeze for longer storage. To reheat, wrap stack (thawed if frozen) in foil and place in a 350° oven for about 10 minutes; or place stack in a plastic bag and heat in a microwave oven for about 1 minute. Makes 12.

Rye Tortillas with Caraway

Follow instructions for Sesame Seed Tortillas, omitting sesame seed. Reduce all-purpose flour to 1½ cups and add 1½ cups rye flour. Also add 2 teaspoons caraway seed with flour.

Whole-wheat Tortillas with Wheat Germ

Follow instructions for Sesame Seed Tortillas, omitting sesame seed. Omit all-purpose flour and substitute 3 cups whole-wheat flour. Add ¼ cup toasted wheat germ to flour. □

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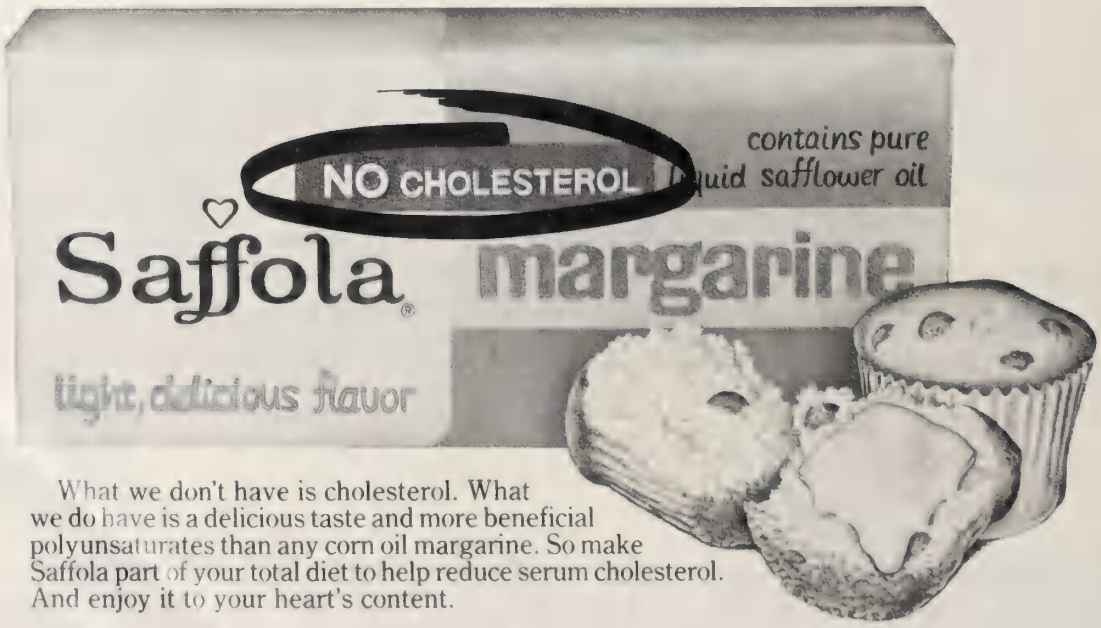

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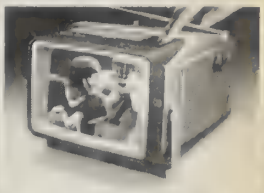

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Mom, the flag, apple pie, fish . . . and Murray Segal's scallops?

This may be hard to believe in a country where beef comes fourth in a list headed by the flag, Mom, and apple pie—but it's fish that's kept us going all this time.

The thing is, fish is there for the taking, whereas meat has a childhood, however brief, during which it wanders around and demands to be fed. In the dear, dead days of the mammoth and the woolly rhinoceros, we just followed it until it grew fat and ready to barbecue. That works only if there aren't too many of us. When we grew numerous, the meat supply dwindled and we turned to the water. Civilizations rose and fell because codfish decided to move to another neighborhood or herring went in for small families.

Recently we have adopted the Marie Antoinette approach: when England and Iceland threaten bodily harm to one another over fishing rights and other small nations begin claiming that their territorial boundaries extend a hundred miles out to sea, we wonder at their excitement. "Tsk, tsk," we say. "Let them eat lamb chops."

Well, both chops and cioppino seem to be getting away from us these days, but while there's still something out there besides oil slick and radioactive sludge, let's try *Chef* Murray Segal's recipe for scallops.

Scallops Piquant

- 1 pound scallops
- ¾ cup fine dry bread crumbs
- ½ teaspoon garlic, minced or pressed
- 1 tablespoon chopped parsley
- ½ teaspoon dry mustard
- ¼ teaspoon dill weed
- 2 tablespoons grated Parmesan cheese
- Dash cayenne
- About ¼ cup all-purpose flour
- 1 egg
- 1 teaspoon water
- 4 to 6 tablespoons butter or margarine
- ½ cup dry white wine
- ½ teaspoon Worcestershire
- 4 drops liquid hot pepper seasoning

Rinse scallops well; set aside to drain. Spread crumbs in a shallow baking pan; place in a 350° oven for about 10 minutes or until toasted. Combine the toasted crumbs, garlic, parsley, mustard, dill weed, cheese, and cayenne.

Place flour on a paper towel. In a shallow dish, beat egg and water together. Dredge each scallop in flour, shake off excess, and dip into egg mixture; then place in the crumb mixture and toss to coat evenly.

Melt 4 tablespoons of the butter in a wide frying pan over medium heat; add scallops a few at a time and cook, turning carefully with a spatula, until browned on all sides and flesh is opaque throughout when slashed. Add more butter as needed. Lift out to a warm serving platter; keep warm until all are cooked. Combine wine, Worcestershire, and hot

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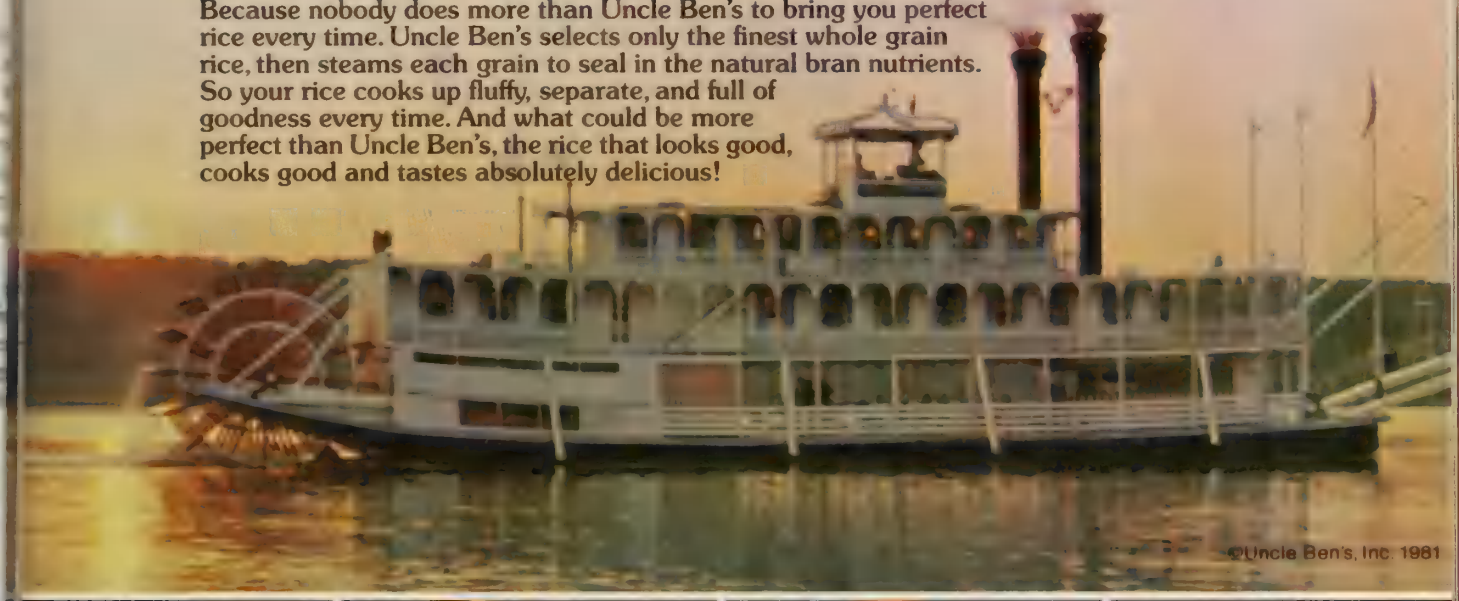

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pepper seasoning and heat until steaming. Pass in a bowl to drizzle over hot scallops. Serve at once. Serves 4.

Santa Monica, Calif.

Sherbet, in the days of the 20-course banquet, was served in tiny portions between courses, both to refresh the palate and to give the cooks time to fill the next platter.

We no longer do this. In fact, Ralph Jacobs goes some distance in the other direction, creating for us a sherbet bombe that includes generous amounts of whipped cream, crumbled macaroons, and three kinds of sherbet. Actually, it's not quite a bombe, since he does it in a tube pan, but it is very impressive and fairly simple.

Frozen Macaroon Dessert

- 20 crisp coconut macaroons
- 3 tablespoons melted butter or margarine
- 1 pint whipping cream
- ½ cup sugar
- 1 teaspoon vanilla
- 1 pint *each* orange, lime, and raspberry sherbet

Place macaroons in a bag; with a rolling pin, crush into fine crumbs. Mix the crumbs with butter, blend well, then set ⅓ of the mixture aside. Press the remaining crumb mixture evenly over the bottom of a 10-inch tube pan with a removable bottom or a cheesecake pan.

Whip cream until almost stiff, then beat in the sugar and vanilla. Evenly spread in crumb-lined pan. Let sherbets soften slightly, then spoon over cream, alternating colors to give a marbled effect. Smooth top, then sprinkle reserved crumbs on top. Cover and freeze at least 24 hours.

To serve, remove pan from freezer and let stand 15 minutes. Remove pan sides, then cut into slices. Makes 14 to 16 servings.

Hacienda Heights, Calif.

Everyone seems to like Eric Liebenow's Trainwreck Pork Chops, although Mr. Liebenow states that the origin of the name is obscure. This is the kind of thing that makes you wonder why all that convenience food is on the shelf. These chops take about 3 minutes to prepare

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ot counting cooking time) and come ıt tasting like food rather than box.

rainwreck Pork Chops

1 can (8 oz.) stewed tomatoes
¼ cup instant minced onion
1 teaspoon *each* garlic salt, oregano leaves, and sugar
½ teaspoon pepper
1 can (8 oz.) tomato sauce
1 tablespoon hickory smoke - flavored barbecue sauce
4 loin pork chops or pork steaks, about ¾ inch thick
Hot, cooked noodles

Combine the stewed tomatoes (break up with a spoon), onion, garlic salt, oregno, sugar, pepper, tomato sauce, and arbecue sauce. Pour ½ of the mixture ıto a shallow 2-quart casserole. Trim xcess fat from meat and arrange chops ı sauce, then pour remaining sauce ver top.

Cover casserole and bake in a 350° oven or 1 hour or until meat near bone is no onger pink when slashed. Arrange noodles on a warm, rimmed serving platter; place chops on top. Skim fat from sauce, drizzle some of the sauce over the meat, and pass the remaining sauce at the table. Makes 4 servings.

Edmonds, Wash.

Dr. L. Stanley Durkin pours a bit of rum and some coconut syrup over French pancakes and lights it all on fire. When it goes out, he eats it. It is very good. Stand back during the preparations.

Rum Coconut Crêpes

16 dessert crêpes (recipe follows)
½ cup butter or margarine
½ cup dark rum
½ cup coconut syrup

Prepare crêpes; if made ahead, let come to room temperature before separating.

In a small pan, melt butter over medium heat; stir in 6 tablespoons of the dark rum and the coconut syrup and heat until steaming.

Fold each of the crêpes in quarters and arrange them in a shallow 2-quart casserole. Carefully spoon sauce into and over each crêpe. Place, uncovered, in a 300° oven for 10 minutes or until heated through.

To serve, warm the remaining 2 tablespoons rum and carefully pour over surface of hot crêpes. Ignite. When flames subside, spoon crêpes and sauce onto individual plates. Makes 8 servings, 2 crêpes each.

Dessert crêpes. Whirl 3 eggs and ⅔ cup all-purpose flour in a blender or food processor; add 1 cup milk and whirl until smooth.

Place a 6- to 7-inch crêpe pan or other flat-bottomed frying pan over medium

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Now you're cooking

Broccoli Jarlsberg

Boil 2 lbs. broccoli until tender. In saucepan, saute ½ c. ham strips in 3 tbs. butter. Add 3 tbs. flour. Cook; stir until smooth. Remove from heat and gradually blend in 2 c. milk. Add 1 tsp. dry mustard, ¼ tsp. paprika, ½ tsp. salt, ⅛ tsp. pepper, 1½ c. shredded Jarlsberg. Cook; stir until thick and smooth. Spoon over broccoli. Serves 4.

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Ask for Jarlsberg wherever you buy cheese.

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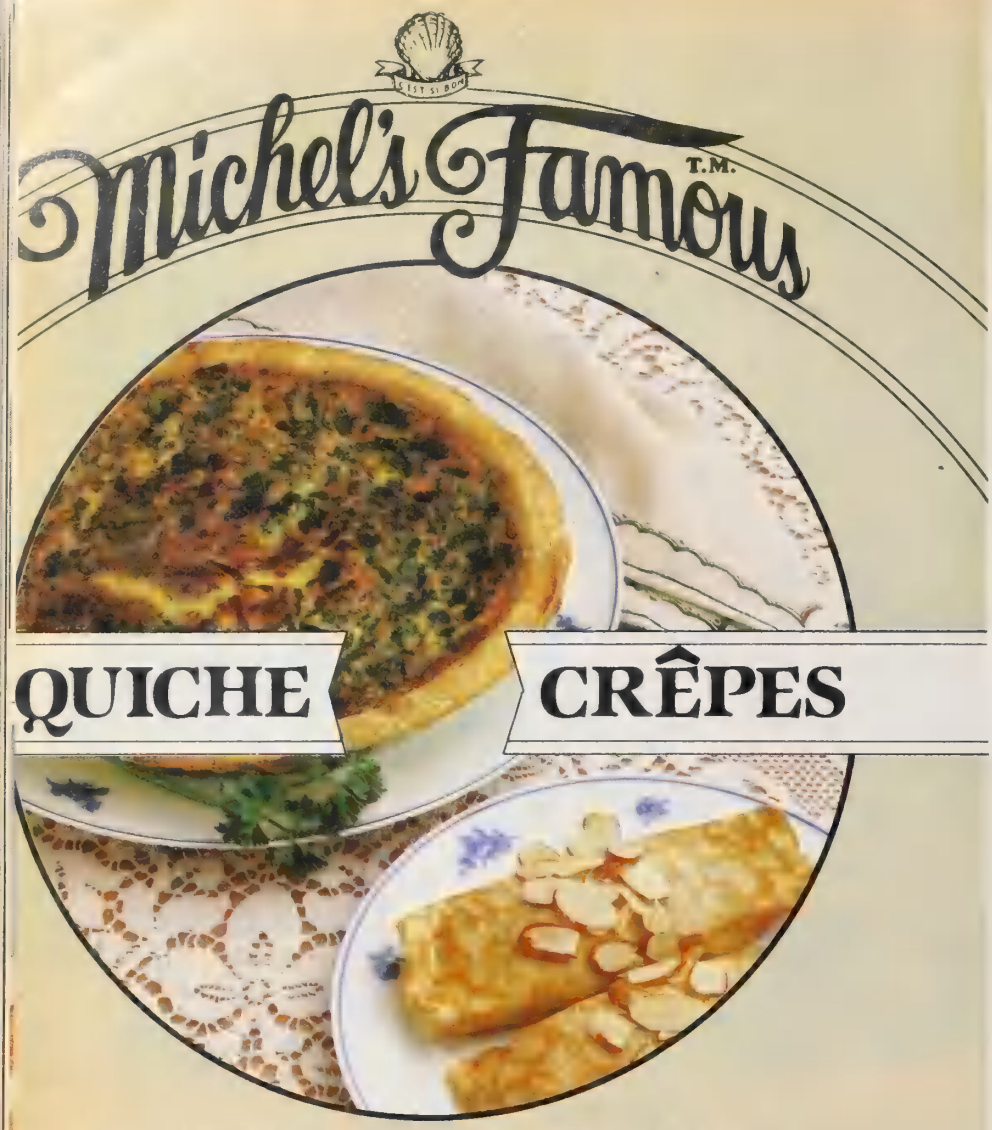

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heat. When pan is hot, add ¼ teaspoon butter or margarine and swirl to coat surface. At once pour in about 1½ tablespoons batter, tilting pan so batter flows quickly over entire flat surface. Cook until edge of crêpe is lightly browned and surface looks dry. (Don't worry if there are a few little holes.) With a spatula, carefully turn crêpe over and cook until lightly browned. Turn crêpe out of pan onto a plate.

Repeat this procedure to make each crêpe; stir batter occasionally and stack cooked crêpes one atop another. If you do not use them within a few hours, package airtight when cool and refrigerate as long as 1 week. Or freeze for longer storage.

Tacoma

Chef Henry Lattschar suggests a nice old-fashioned treat that pleases the eye as much as the palate. It is not world-shaking, not the acme of originality, it is just good.

But that's more than sufficient. Why must everything titillate? We feel we must get a "charge" out of our days. We say of a thing that it was a "blast." Are we then a group of ambulatory firecrackers? *Chef* Lattschar's dish is of the kind that we can greet with pleasure the 10th time, saying, "Oh, good. This again."

Lattschar's Meat Loaf with Eggs

- 2 cups herb-seasoned croutons
- 2 pounds lean ground beef
- 1 pound lean ground pork
- 1 raw egg
- 2 cans (8 oz. *each*) tomato sauce
- 1 large onion, finely chopped
- 1 teaspoon salt
- ½ teaspoon each pepper and oregano leaves
- 4 hard-cooked eggs

Place croutons in a blender and whirl until finely crushed. In a large bowl, combine beef, pork, crouton crumbs, the raw egg, tomato sauce, onion, salt, pepper, and oregano. Mix well.

Shape half of the meat mixture into about a 5- by 9-inch loaf down the center of an 8- by 12-inch baking dish. Arrange the hard-cooked eggs, end to end, down the center of the meat. Cover with the remaining meat mixture, pressing lightly to completely enclose the eggs in a compact loaf.

Bake, uncovered, in a 350° oven for 1½ hours or until meat in center is no longer pink when slashed. Let stand about 10 minutes, then with 2 spatulas, carefully lift meat loaf to a serving platter. To serve, cut across in thick slices. Makes 8 to 10 servings.

River Pines, Calif.

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Start *with a big, thin rectangle of dough; top it with butter, sugar, and spice, then fold edge over and over*

The result *is a long, narrow, multilayer strip; you slice it across diagonally to make individual rolls*

Perfect partners: *sweet rolls swirled with cinnamon and sugar, served warm with morning coffee*

DARROW M. WATT

Armenian sweet rolls...from yesterday's Armenia

We had no reason to doubt Berge Hoogasian when he told us "There is no better teacher or Armenian bread baker than my 82-year-old mother." She taught him the art she had learned from her father, a renowned baker in Armenia.

Here's their recipe for *kahtah*, Armenian sweet rolls. There may be as many versions of this popular bread as there are Armenian bakers, but these are fragrantly spiced with cinnamon and especially easy to shape. They take patience, for the dough needs to rise three times. The recipe makes a big batch, so you can enjoy some now and freeze the rest.

Armenian Sweet Rolls (*Kahtah*)

- 2 packages active dry yeast
- 1 cup *each* warm water and warm milk (about 110°)
- ¾ cup melted butter or margarine
- 3 eggs
- 1¼ cups sugar
- 2½ teaspoons salt
- About 7 cups all-purpose flour
- Ground cinnamon
- 1 tablespoon water
- About ½ cup sesame seed or finely chopped walnuts

In the large bowl of an electric mixer, combine the yeast and 1 cup water; let stand about 5 minutes. Add the milk, 6 tablespoons of the butter, 2 whole eggs plus 1 egg yolk (set egg white aside for glaze), ½ cup of the sugar, and the salt. While beating at medium speed, add 3½ cups of the flour, about 1 cup at a time. Turn to medium-high and beat for about 5 minutes. With a heavy-duty mixer or by hand, gradually beat in about 3 more cups of the flour.

Turn out on a floured board and knead until smooth and elastic, about 10 minutes, adding more flour as needed—dough should be quite soft, but not sticky. Turn over in a greased bowl, cover with plastic wrap, and set in a warm place until doubled, 1½ to 2 hours. Punch down, cover, and allow to double a second time, about 1 hour.

Punch down dough and divide in 6 equal portions. Shape each portion into a ball and place, about 2 inches apart, on a floured tray. Cover and allow to rest at room temperature for 30 to 40 minutes.

Working with one portion of dough at a time, roll out on a floured board to an 8- by 20-inch rectangle (keep remaining balls covered). Brush each rectangle with 1 tablespoon of the melted butter, sprinkle with 2 tablespoons of the sugar, and sprinkle generously with cinnamon.

Fold over 1 inch on a long side, then turn over and over (5 turns) to make a long 1-inch-wide strip. Flatten gently, then stretch to 20 inches long. Cut in 2-inch diagonal slices. Place at least ½ inch apart on well-greased baking sheets; cover and place in a warm spot to rise until puffy, 20 to 30 minutes.

Beat reserved egg white with the 1 tablespoon water, brush over tops of rolls, then sprinkle lightly with the seeds or nuts. Bake in a 375° oven for 12 to 16 minutes, until lightly browned. To bake 2 pans at once, reverse pans in oven about halfway through baking.

Remove rolls from pan immediately and cool on racks. Serve warm, or cool completely and freeze. (If frozen, defrost, then heat in a 350° oven for about 10 minutes to heat through.) Makes about 4½ dozen—*B.H., Morgan, Utah* □

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DARROW M. WATT

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Putting a coat on your almonds or walnuts

Plain nuts are good for nibbling any time. But if you dress them up in a sweet or savory coating, you can turn them into a special snack for serving at a spring party or reception.

In the savory category, we suggest almonds coated with a choice of seasoned salts or cheese, walnuts roasted with a peppy soy coating, and a snack mix of ginger-seasoned dried fruit and nuts.

For a sweet tooth, try penuche walnuts glazed with a spicy brown-sugar syrup or mixed Swedish-style nuts—almonds and walnuts baked in meringue.

Quickly Seasoned Almonds

- 1 pound shelled whole almonds, blanched (directions follow) or unblanched
- 1 tablespoon butter or margarine
- 1 egg white
- Seasonings: 1 tablespoon Kosher salt, seasoned salt, or Mexican seasoning; or 2 tablespoons grated Parmesan cheese

Grease a rimmed baking sheet with the butter; set aside.

In a medium-size bowl, beat the egg white until frothy. Stir in the nuts and your choice of one of the seasonings listed here. Spread coated nuts on the prepared pan and bake in a 325° oven for 20 minutes or until nuts are shiny and golden brown. Store covered at room temperature. Makes 1 pound.

To blanch the almonds, place them in a bowl and pour over enough boiling water to cover; let stand 30 seconds, then drain. Rinse with cold water and drain thoroughly. Slip off skins. Pat nuts dry with paper towels and spread on a rimmed baking sheet. Bake in a 300° oven for 10 minutes or until crisp. Cool.

Cocktail Walnuts

- 2 tablespoons butter or margarine
- 1 pound (2 cups) walnut halves
- 2 teaspoons soy sauce
- ½ teaspoon *each* ground ginger and salt
- ¼ teaspoon garlic powder

Place the butter in a 9- by 13-inch baking dish; set in a 250° oven until it melts. Stir in the soy, ginger, salt, and garlic powder. Add the walnuts, stirring to coat. Spread nuts to make a single layer and bake at 250° for 45 minutes, stirring occasionally. Turn nuts onto brown paper and cool. Store covered at room temperature. Makes about 1 pound.

Gingered Fruit-and-Nut Snack Mix

Spread 1 cup blanched or unblanched whole almonds (see blanching directions in first recipe) on a rimmed baking sheet and toast in a 300° oven for 10 minutes or until light brown. Add 1 cup natural coconut chips to pan, spreading evenly, and return to oven for 5 minutes or just until coconut begins to brown. Remove from oven and add 1 cup *each* banana chips, raisins, and roasted peanuts.

Mix together 1 tablespoon melted butter or margarine, 1¼ teaspoon ground ginger, and ¼ teaspoon *each* salt and cayenne; pour over fruit and nuts, tossing to coat. Turn onto brown paper to cool. Store covered at room temperature. Makes 5 cups.

Penuche Walnuts

- 1 cup firmly packed brown sugar
- ¼ teaspoon *each* salt and ground cinnamon
- 6 tablespoons milk
- 1 teaspoon vanilla
- 1 teaspoon grated orange peel
- 3 cups (24 oz.) walnut halves

In a 2-quart pan, combine the brown sugar, salt, cinnamon, and milk; stir to blend. Set over medium heat and cook, stirring occasionally, until mixture reaches 236° (soft-ball stage) on a candy thermometer. Remove from heat and stir in the vanilla, orange peel, and walnuts. Continue stirring until mixture begins to lose its gloss and a sugary coating forms on walnuts.

Turn mixture onto brown paper. Using two forks, separate walnuts. Cool completely and store covered at room temperature. Makes 3 cups.

Swedish-style Nuts

- ½ pound (2 cups) blanched almonds (see directions in first recipe)
- ½ pound (2 cups) walnuts
- 2 egg whites
- ⅛ teaspoon salt
- 1 cup sugar
- ½ teaspoon *each* ground cinnamon and grated orange peel
- ½ cup butter or margarine

Spread the blanched almonds on a rimmed baking sheet and toast in a 325° oven for 8 minutes or until light brown; set aside.

In a large bowl, beat the egg whites and salt until soft peaks form. Continue beating, adding sugar gradually, until stiff peaks form. Beat in the cinnamon and orange peel; stir in the toasted nuts.

Place butter on a rimmed baking sheet and set in a 325° oven just until melted. Swirl pan to distribute butter, then distribute nut mixture evenly in pan. Bake in a 325° oven, stirring mixture occasionally, for 35 minutes or until light brown. Turn nuts onto brown paper to cool. Store covered at room temperature. Makes 6 cups. □

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Nobody else has our secret recipes or our unique flavors.

Vintage Herb is available in most areas.

DARROW M. WATT

Naturally sweet *with dates and molasses, whole-wheat bread makes nutritious snack*

This bread is an experience

With only one rising, this loaf is quick to prepare and lighter in texture than most homemade whole-wheat breads. Sweet and moist, it's delicious plain, toasted, of for sandwiches.

Whole-wheat Cashew Date Bread

- 5 cups whole-wheat flour
- 2 packages active dry yeast
- 2 tablespoons molasses
- 1¾ cups warm water (110°)
- ¼ cup salad oil
- 1½ teaspoons *each* salt and ground cinnamon
- 1 cup chopped unsalted cashews or walnuts
- 1 cup chopped pitted dates

Measure flour into a bowl; place in a 150° oven until warm, about 10 minutes. In a large mixer bowl, combine yeast, molasses, and ¾ cup of the water; let stand 15 minutes or until bubbly.

Mix in remaining 1 cup water, oil, salt, and cinnamon. Add 2½ cups of the flour, about 1 cup at a time, beating at medium-low speed for about 5 minutes. Remove bowl from mixer; gradually add remaining 2½ cups flour, beating with a wooden spoon after each addition. Mix in cashews.

When dough begins to clean sides of bowl, turn onto a lightly floured board. Knead in dates, then shape into a smooth loaf. Place in a greased 9- by 5-inch loaf pan; cover lightly with plastic wrap. Let rise in a warm place 30 to 40 minutes or until about 1 inch above the pan rim.

Bake in a 375° oven for 50 minutes or until loaf is well browned and sounds hollow when tapped. Turn out of pan onto a rack to cool. Makes 1 loaf. □

HOORAY FOR THE RED, WHITE AND TREASURE CAVE BLUE® CONTEST!

SEND US YOUR MOST INNOVATIVE RECIPE USING TREASURE CAVE BLUE CHEESE. YOU COULD WIN $1,000 PLUS DESIGNER STORAGE RACKS FOR A 100-BOTTLE RED AND WHITE WINE CELLAR!

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Announcing a contest for wine connoisseurs and lovers of blue cheese. Especially America's number one blue cheese—authentic, cave-aged Treasure Cave Blue.

We want to know how you use Treasure Cave Blue instead of a traditional ingredient to enhance appetizers, soups, salads, meats, casseroles, fruits, desserts and sandwiches. Like using Treasure Cave Blue instead of Worcestershire sauce on your char-broiled steaks. Or Treasure Cave Blue instead of Ricotta in your ravioli.

Send us your most interesting recipe along with the "Pirate" label from any Treasure Cave Blue Cheese package. The First Prize winner will receive $1,000 in cash plus enough wine racks to start an international Red and White Wine Cellar. The next ten winners will each receive a 12-bottle wine rack plus $100 in cash.

It's as easy as Red, White and Blue. So enter now. All you need is Treasure Cave Blue and a little imagination.

Treasure Cave Official Rules and Entry Form

1. Contest open only to residents of the United States.
2. Recipe must be typed or plainly written on one side of a sheet of paper 8½ x 11. Name, address must be attached on an official entry blank or separate sheet of paper. The "Pirate" label cut from a package of Treasure Cave Blue Cheese must be included. Florida and Vermont residents excepted.
3. Recipe must include as an ingredient Treasure Cave Blue Cheese and must include complete preparatory instructions, readily available ingredients, and standard measurements.
4. Mail entries to Treasure Cave Contest, P.O. Box 4774, Chicago, Ill. 60677. Each entry must be mailed in a separate envelope, postmarked no later than July 31, 1981 and received no later than August 15, 1981.
5. Recipes will be judged by H. Olsen & Company, an independent judging organization, on the basis of originality, ease of preparation, and appetite appeal. Finalist recipes will be kitchen tested by Home Economist. Judge's decisions will be final.
6. All entries become the property of Swift & Company and none will be returned. Entry in contest gives Swift & Company the right to publish or use recipe (with rights to adapt) without further compensation to entrant.
7. Recipe must not have been previously published nor have won another prize or award and the right to submit it in accordance with the Contest rules must not be restricted.
8. Contest void wherever prohibited or restricted by law. Taxes on prizes are the responsibility of the winner. No substitution of prizes permitted. Employees and their immediate families of Swift & Company, its affiliated companies, its advertising and promotional agencies, H. Olsen & Company, and persons involved professionally in food preparation are not eligible. Only one prize per family.

Dear Treasure Cave Blue
Here's my recipe and your label. Hooray for the Red, White and Treasure Cave Blue!
Mail entry to: Treasure Cave Contest, P.O. Box 4774, Chicago, Ill. 60677

Name of recipe _____

Name _____

Address _____

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DARROW M. WATT

Baked meatballs *nest in crisp cold lettuce; serve with lemon wedges and brown sauce*

Hot meatballs and cold lettuce? Yes, in a main-course salad

Oriental flavors distinguish these refreshing meatball salads. Choose the beef meatballs with pungent pickled red ginger or turkey meatballs with crisp water chestnuts (both served warm) to spoon over cool lettuce. Serve either of these salads as the main course for lunch or for a light supper.

Look for pickled red ginger (*beni shoga*), sweet rice wine (*mirin*), and sesame oil in the Oriental section of your supermarket or in an Oriental market.

Oriental Meatball Salad

- Beef or turkey meatballs (recipe follows)
- 1 teaspoon sugar
- 1 tablespoon mirin (sweet rice wine) or golden sherry
- 2 teaspoons soy sauce
- ½ teaspoon vinegar
- 1½ cups water
- 1 chicken bouillon cube
- 1 head iceberg lettuce, very finely shredded
- ¼ cup thinly sliced green onions, tops included
- 1 lemon, cut in wedges

Prepare the beef or turkey meatballs as directed at right. While they bake, combine the sugar and cornstarch in a small pan; mix in the mirin, soy sauce, vinegar, and water; stir until smooth. Add the bouillon cube and cook over medium heat, stirring constantly, until the mixture boils and thickens. Keep warm.

Spread the shredded lettuce on a serving plate. Spoon hot meatballs on top; sprinkle with green onions and garnish with lemon. Serve immediately. Pass warm brown sauce at the table. Serves 4.

Beef meatballs with red ginger. In a bowl, combine 1 pound lean ground beef; 1 medium-size onion, very finely chopped; 1 clove garlic, pressed; 4 teaspoons finely chopped pickled red ginger; ¼ teaspoon salt; dash of pepper; and 1 teaspoon sesame oil (optional). Mix well, cover, and chill for 1 hour.

Shape 1-inch balls and place about 1½ inches apart on 2 greased shallow-rimmed baking sheets. Bake in a 450° oven for 10 to 12 minutes or until browned.

Turkey meatballs with water chestnuts. In a bowl, combine 1 pound ground turkey; 1 egg, slightly beaten; ⅓ cup chopped green onions, tops included; 1½ teaspoons sesame oil (optional); 4 teaspoons soy sauce; 2 tablespoons mirin or golden sherry; ¼ cup fine dry bread crumbs; and 1 can (about 8 oz.) water chestnuts, drained and chopped. Mix well; cover and chill 2 hours or until mixture is firm enough to handle.

Shape 1-inch balls and place about 1½ inches apart on 2 greased, shallow-rimmed baking sheets. Bake in a 450° oven for about 8 minutes. □

Ever wonder why food tastes better in a restaurant?

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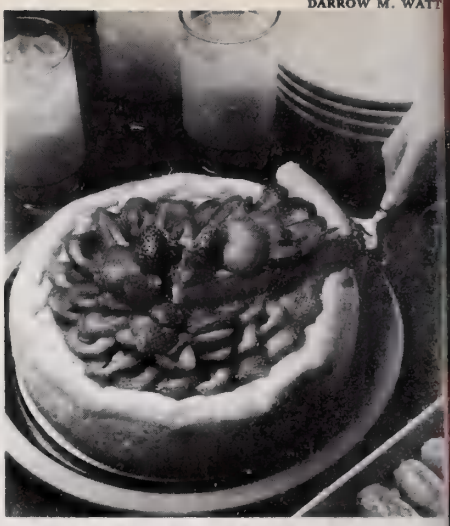
DARROW M. WATT



Fresh strawberries *brighten wedges of cottage cheese cake—served here for brunch*

Cottage cheese brunch cake

Low-fat, protein-rich cottage cheese goes into the creamy filling for this simple version of an old-fashioned German cake. Serve it for an unusual brunch entrée or as dessert.

The golden crust, like bread or a sweet roll in texture, has a slightly tangy flavor from the yeast. It requires no kneading, but needs 3 hours standing time; so plan to bake the cake a day ahead.

German Cottage Cheese Brunch Cake

Dissolve 2 teaspoons active dry yeast in ¼ cup warm (110°) water; add ⅓ cup warm (110°) milk and 2 tablespoons *each* sugar and butter or margarine, (melted); stir to mix. Stir in 1¼ cups all-purpose flour just to form a thick batter. Cover and let stand at room temperature for 3 hours or until airy.

Stir dough down. With fingers floured, press dough over bottom and halfway up sides of a greased 9-inch cheesecake pan with removable sides; set aside.

Whirl 2 pints small-curd, low-fat cottage cheese in a food processor or blender until smooth. Set in a bowl and add 1 cup sugar, ¾ cup all-purpose flour, 3 eggs, 1 teaspoon vanilla, and 4 tablespoons melted butter or margarine. Stir to mix and pour into dough-lined pan.

Bake in a 350° oven for about 1 hour or until a wooden pick inserted into the center comes out clean. Cool in pan on a wire rack; chill. To rewarm, set cake, covered, in a 350° oven for 30 minutes. Remove pan sides and spoon about 3 cups sliced strawberries, peaches, or nectarines (sweetened to taste) onto top. Serves 8 to 10.—*S. O., Oakland.* □

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NORMAN A. PLATE

When clams pop open, *this Portuguese pork and red pepper entrée is ready. Spoon into ramekins or shallow bowls at the table*

IN SPOKANE . . .

A family-favorite Portuguese dinner

Slices *of spicy linguisa sausage flavor this bright green kale-and-potato soup*

Dinner at the Palmers' house is often an international affair, since Darlene teaches a variety of ethnic cooking classes in Spokane. One of her favorite menus features her own heritage.

It starts with a traditional Portuguese soup made with spicy linguisa sausage, kale, and potatoes cooked in a seasoned broth. The entrée is a colorful dish of marinated pork cubes simmered with clams and strips of red pepper. It goes well with a green salad and crusty bread or rice to soak up the flavorful juices. Dessert is flan or baked custard.

Portuguese Sausage and Kale Soup

Peel 3 large white new potatoes and cut into ½-inch cubes. In a 5-quart kettle, combine potatoes with 6 cups regular-

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Cool lemon.

For the cook who'd rather not cook.

Here's a luscious, lemony pie that's so easy you don't even have to cook it! Simply combine creamy, rich Eagle® Brand Sweetened Condensed Milk with lemon juice for a light and lemony chiffon pie filling. And when you pour the filling into a delicious graham cracker Ready-Crust® pie crust, you can serve up this cool, refreshing springtime treat in a breeze! Just follow the simple recipe below.

strength chicken broth (or 6 chicke bouillon cubes dissolved in 6 cups water Cover and simmer until potatoes are ver tender, about 35 minutes.

Meanwhile, boil ½ pound linguisa sa sage, covered, in ½ inch of water for 1 minutes. Drain well; remove casings. C sausage into ½-inch slices and set aside Also cut out and discard the tough stem from 2 bunches (1 lb. *each*) kale, spin ach, or chard. Cut leaves into shreds an add to soup. Cover and simmer unt greens are tender, about 10 minutes.

Whirl a portion of the soup at a time i a blender or food processor until green are coarsely chopped. Return to kettl and add the sausage; heat about 10 min utes longer. Cover and chill if mad ahead; reheat to serve. Season to tast with pepper. Serves 6.

Pork with Red Peppers and Clams

- Wine marinade (recipe follows)
- 2½ pounds lean boneless pork, cut in 1-inch cubes
- About 2 tablespoons salad oil
- 2 medium-size onions, thinly sliced
- 2 medium-size tomatoes, peeled and chopped
- ⅛ teaspoon crushed red pepper
- 1 to 1½ dozen clams in the shell, well scrubbed
- 2 large red bell peppers, seeded and cut in wide strips or 1 jar (7¼ oz.) roasted red peppers, drained and cut in wide strips
- ¼ cup coarsely chopped fresh coriander (cilantro)

In a deep bowl or double plastic bags, combine the marinade and pork cubes. Cover bowl or close bags with a metal twist and chill 6 to 8 hours; stir several times. Lift out pork and drain well; reserve marinade.

Heat the oil in a wide frying pan over medium to medium-high heat. Add about half the pork at a time and brown well on all sides; remove from pan as browned. Add more oil to pan if needed, then add the onions and cook, stirring, until limp; remove from pan.

Pour in the reserved marinade (discard bay) and boil, stirring to loosen browned bits from pan bottom, until reduced by about half. Return pork and onions to pan. Stir in the tomatoes and crushed red pepper. Cover and simmer until pork is tender, about 30 minutes.

Add the clams and fresh bell pepper strips, if used. Cover and simmer gently until clams pop open, about 20 minutes longer. If using the roasted red peppers, stir them in now, along with the coriander. Spoon into a large shallow serving bowl or individual ramekins to serve. Makes 6 servings.

Wine marinade. Combine 1½ cups dry white wine, 2 bay leaves, 1 teaspoon *each* salt and paprika, and 3 cloves garlic (minced or pressed). ◻

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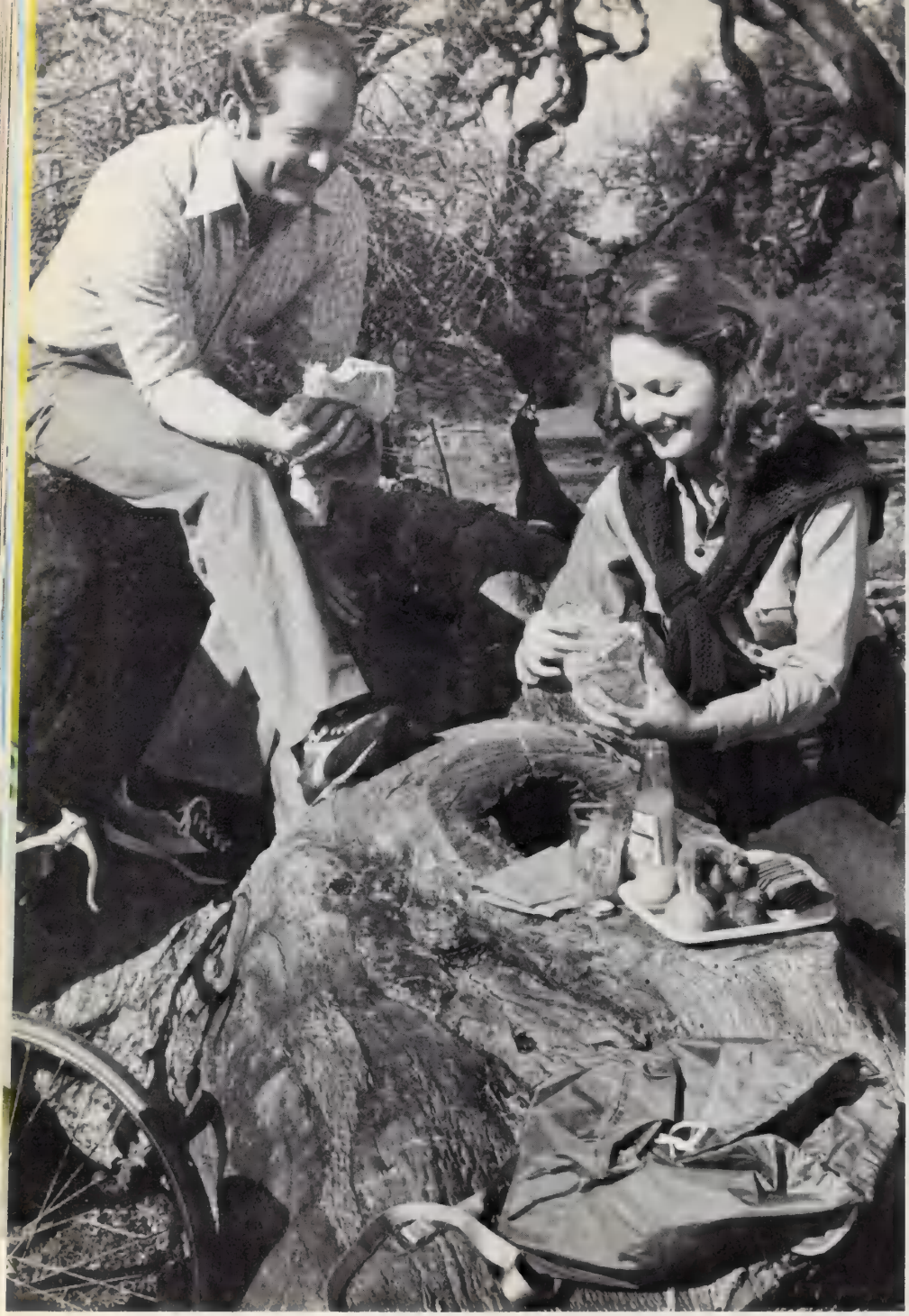

Pack a lunch *of savory pocket sandwiches, fruit, and cookies to carry along on a bicycle outing*

MAY MENUS

Bike or hike picnic with pocket sandwiches, patio supper with beef turnovers, Mother's Day awakener, fruit and sausages

DARROW M. WA

Inside *the chewy bread round is a filli of salami and cream cheese; crunc sprouts are added at last minu*

May's warm weekends entice us ou doors, so our first menu offers portab pocket bread sandwiches that tuck in a day pack for a bike or hike picnic.

For a patio supper, pie crusts studd with crunchy chips wrap around a Me ican-style beef filling for two- or thre person turnovers; try them with our r freshing buttermilk coolers. And honor mother on the 10th, our thi menu features an elegant coffee cake a savory sausage patties.

Spring bike or hike picnic

Arab pocket breads make these san wiches easy to pack; carry the sprou and dressing separately.

Portable Pocket Sandwiches
with Sprouts and Italian Dressing
Fresh Fruit Assorted Cookies

You can make and pack the lunch a d ahead or, if your outing is a last-minu impulse, pack a small bowl, a spoon, a a knife, and stop along the way for t ingredients. Carry water or plan to pi up a beverage along the way.

Portable Pocket Sandwiches

- 1 package (4 or 5 oz.) garlic-herb-flavored creamy appetizer chees
- 2 ounces salami, chopped
- 1 stalk celery, chopped
- 2 tablespoons roasted sunflower seed
- 2 rounds Arab pocket bread
- About ½ cup alfalfa sprouts
- Bottled Italian dressing

Stir cheese to soften; mix in salami, c ery, and sunflower seeds. Split bre

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elicious Bran'nola® Original bread makes all your family's favorite sandwiches taste even better. It's bread baked with wholesome ngredients, sweetened with honey and tangy raisin syrup —no artificial preservatives, ever.

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Try them soon. They'll give fresh, delicious tastes to your salads and other dishes, too. For example, "Dressed-Up Taters":

"DRESSED-UP" TATERS

4 large baking potatoes
½ to ¾ cup Wish-Bone Creamy Bell Pepper or Creamy Cucumber Dressing
1 cup shredded cheddar cheese (about 4 oz.)
1 cup cubed cooked ham (about ½ lb.)
Paprika

Preheat oven to 400°.

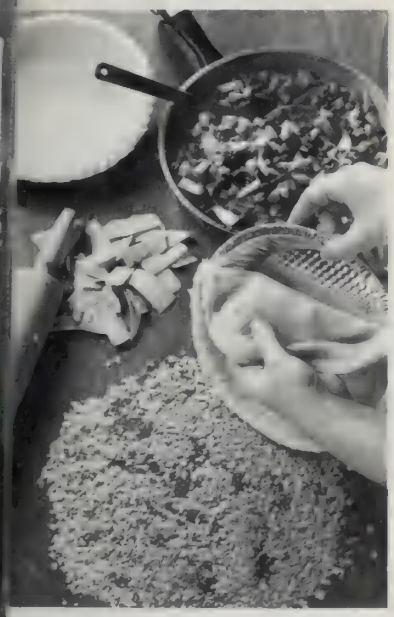
Bake potatoes until done. Scoop potato from shells, reserving shells.

In medium bowl, mash potatoes with either dressing; stir in cheese and ham. Refill shells; sprinkle with paprika. Bake 15 minutes or until heated through. Makes 4 servings.

WISH-BONE DRESSINGS. THEY'VE GOT ZING!

DARROW M. WATT

For beef turnovers, *remove two thawed pie shells from pans and press into rushed chips, then add filling and bake. Cut each into 2 or 3 wedges to serve*



unds open on one end; divide salami ixture in half and spoon inside bread. made ahead, wrap in plastic sandwich gs, securing tops. Cover and chill.

ackage sprouts in a plastic container or nother bag and secure top; chill if mak- g ahead. Also, wrap a bottle of Italian essing to guard against leaks.

t picnic site, tuck sprouts into sand- iches and drizzle with the dressing. akes 2.—*L. S., San Diego.*

Patio supper

rushed tortilla chips give these big turn- vers their appetizing appearance and runch. Start with frozen pie shells or repare a favorite recipe for a double- rust 9-inch pie.

Crisp Vegetable Platter
Crunchy Beef Turnovers
New Mexican Vanilla Coolers
Chilled Fresh Fruit

f you like, assemble the turnovers a day head and chill. The next day, prepare egetables and bake turnovers; make the oolers just before serving time.

Crunchy Beef Turnovers

Thaw 2 frozen 9-inch pie shells or pre- pare dough for a double-crust 9-inch pie; set aside.

n a frying pan, heat 1 tablespoon salad oil over medium-high heat. Crumble and add ½ pound ground beef and 1 onion, chopped. Cook, stirring, until beef is no onger pink, about 5 minutes; skim fat. Stir in 1 clove garlic (minced or pressed), beef bouillon cube, 2 teaspoons chili powder, and 1 teaspoon curry powder. Stir to mix.

Add 1 green pepper (seeded and chopped), 1 tart green apple (chopped), and 1 cup (about ¼ lb.) shredded jack or Cheddar cheese. Stir well; remove from heat and add salt and pepper to taste; set aside.

On a large board, crush about 1 ounce tortilla chips. Carefully remove a pie shell from pan (or roll half of the pastry into a 10- or 11-inch circle and trim edges). Invert onto the crushed chips and press lightly to embed chips in dough.

Place pastry, chip side down, on an ungreased cooky sheet and spoon half of the beef mixture over half of the dough, to within 1 inch of edge. Gently fold other half of dough over filling and flute edges together.

Repeat with remaining pie shell (or remaining dough), chips, and beef mixture to make a second turnover. Evenly distribute any remaining chips over tops of turnovers, pressing lightly to embed. If made ahead, cover and refrigerate.

Bake, uncovered, in a 425° oven for about 20 minutes (about 25 if chilled); then, with a metal spatula, slide onto platter to serve. Serves 4 to 6.—*L. R., Sonora, Calif.*

New Mexican Vanilla Coolers

1 quart buttermilk
2 eggs
1 teaspoon vanilla
1 quart vanilla ice cream
Ground cinnamon

In a blender container, whirl 2 cups buttermilk, 1 egg, and ½ teaspoon vanilla until smoothly blended; add ½ of the ice cream, a scoop at a time, and whirl until smooth. Pour into 2 or 3 glasses. Repeat with remaining buttermilk, egg,

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1 pound large fresh mushrooms
¼ cup Wish-Bone Robusto Italian, Italian or Caesar Dressing
1 cup soft bread crumbs
¼ cup grated parmesan cheese
1 tablespoon finely chopped parsley
Preheat oven to 350°
Remove and finely chop mushroom stems.
In medium bowl, combine dressing, bread crumbs, cheese, parsley and chopped stems. Fill each mushroom with bread crumb mixture; place in shallow baking dish. Add water to barely cover bottom and bake 20 minutes. Serve hot or cold. Makes about 24 appetizers.

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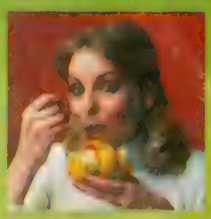

Libby's Libby's Libby's

vanilla, and ice cream to make 2 or more. Sprinkle tops with cinnamo Makes 4 to 6.—*V. E., Santa Fe.*

Mother's Day breakfast

Coconut streusel gives this coffee ca a crusty top.

Honey and Coconut Coffee Cake
Country-style Pork Sausages
Strawberries with Sour Cream and Brown Sugar
Chilled Orange Juice Coffee or Tea

You can bake the cake and shape t sausage patties a day ahead. Next da prepare the strawberries; about 30 mi utes before serving, rewarm the cake a cook the sausage.

Honey and Coconut Coffee Cake

- 2 cups all-purpose flour
- 2 teaspoons baking powder
- 1 teaspoon soda
- ½ teaspoon salt
- Coconut streusel (recipe follows)
- ⅓ cup butter or margarine, at room temperature
- ½ cup honey
- 1 egg
- 1 cup sour cream
- 1½ teaspoons *each* vanilla and grated lemon peel

Combine flour, baking powder, soda and salt; also, prepare coconut mixture.

In the large bowl of an electric mixe beat together the butter, honey, and eg until creamy. Beat in sour cream, va nilla, and lemon peel; then add flou mixture and mix just until blended.

Grease and flour a 9-inch square pan Spoon ½ the batter into pan and to with ½ the coconut mixture; repeat wit remaining ingredients for a second layer

Bake in a 350° oven for 45 to 55 min utes or until edges begin to shrink fro sides; cool in pan. If made ahead, cove with foil; to reheat, set in a 350° ove for about 15 minutes. Serves 6 to 8.— *R. L., Portland.*

Coconut streusel. In a bowl, combine 2 tablespoons melted butter or margarine with ½ cup *each* chopped nuts, flaked coconut, and packed brown sugar. Stir in 2 tablespoons all-purpose flour, 2 teaspoons ground cinnamon, and 1 teaspoon grated lemon peel.

Country-Style Pork Sausages

In a bowl, combine 2 pounds ground pork, 1 onion (finely chopped), and 1 clove garlic (minced or pressed). Sprinkle with 1 teaspoon *each* salt and chili powder, ½ teaspoon fennel seed, and a dash *each* pepper, ground allspice, cayenne, and liquid smoke. Add 2 eggs and mix well. Shape into 3-inch patties.

Cook in a frying pan over medium-high heat for about 3 minutes per side or until no longer pink inside. Serves 8.— *B. R., Lorane, Ore.* □

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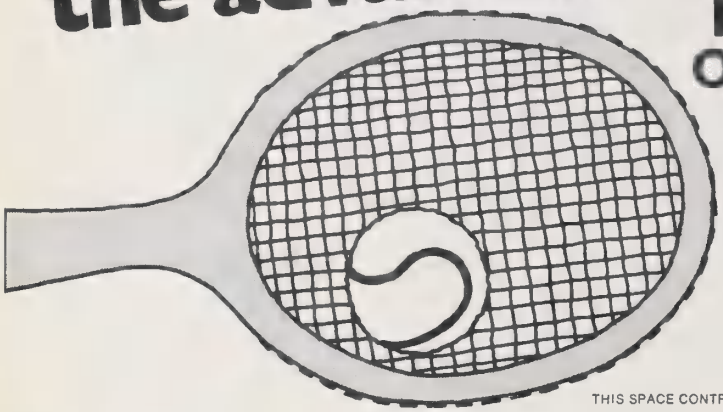

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Mama DeDomenico's
Swiss Steak, Italian Style

- 1 lb. round steak, cut into pieces
- 3 Tbsp. flour
- 1 tsp. salt
- ¼ tsp. pepper
- 3 Tbsp. oil
- ¾ cup chopped onion
- 2 cans (15 oz. each) GOLDEN GRAIN Marinara Sauce
- ½ cup red wine or water
- 2 cups sliced celery
- 1 cup green pepper strips
- 1 pkg. (12 oz.) GOLDEN GRAIN Noodles

Dredge steak in mixture of flour, salt, pepper. Brown in hot oil. Stir in onions and saute. Add Marinara Sauce, wine; bring to boil. Add celery and green pepper. Simmer, covered, 45 minutes or until meat is tender. Prepare noodles according to package directions. Serve sauce over noodles. Makes 6 (1¾ cup) servings.

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TERI SANI

Onions and currants *in tangy sauce double as relish or vegetable dish*

Pub onions... usefu and easily made

These tiny sautéed onions, steeped in sprightly sweet-tart sauce, are remin cent of relishes offered in English pu Consider them as an accompaniment f a light lunch of cheeses and butter toast (or grilled cheese sandwiches) a a watercress salad; or serve as a con ment with a curry or meats.

Pub Onions

- 1½ cups Madeira or Port
- ¾ cup vinegar
- ½ cup firmly packed brown sugar
- ½ cup currants or raisins
- ⅛ teaspoon cayenne
- 2 pounds small whole white onions (¾- to 1½-inch diameter)
- 3 tablespoons salad oil
- Salt

In a 3- to 4-quart pan, combine Madeir vinegar, sugar, currants, and cayenn Boil rapidly, uncovered, until reduced 1¼ cups; set aside.

Peel onions; arrange a single layer in 12- to 14-inch frying pan with sala oil (reserve extra onions to cook in s quence). Cook on medium-high he about 7 minutes or until lightly browne shaking pan to turn onions. With slotted spoon, transfer browned onion to pan with sauce. Brown remainin onions in frying pan in the same fashion then add to sauce.

Heat onions and sauce to boiling, cove and gently simmer; allow 10 minutes fo small onions, 15 for larger ones. The will be slightly crisp inside. Let cool; sa to taste. You can store onions, covere in the refrigerator for 3 or 4 days. The are best served at room temperature Makes about 4 cups or 6 to 8 servings.—*M. C., La Cañada Flintridge, Calif.*

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Salad supper *had a good head start with chicken roasted yesterday. This version: chicken, onion, and garbanzos on spinach leaves with coriander dressing*

NORMAN A. PLA

Tomorrow's chicken roasts alongside today's chicken. Tomorrow... chicken salad supper

Roasting two birds at once is a good way to conserve energy and save the family cook a step in future meal preparation. That's the idea behind these three supper-size chicken salads. The next time roast chicken is on the menu, cook a second one for a next-day salad.

Our spinach salad starts with garbanzos and sweet onion, marinated overnight in a pungent fresh coriander dressing (we give a range on the coriander to accommodate different taste preferences). In the second salad, crunchy Chinese pea pods and bean sprouts join the chicken, with a sesame seed dressing. And in the third, tiers of chicken and a medley of vegetables are topped with a creamy tarragon dressing.

Each recipe calls for a roasted chicken (3½ to 4 lbs.). To prepare it for salad, skin and bone the chicken, then cut meat into slivers or cubes as directed.

Chicken-Spinach Salad with Coriander

In a bowl, combine ¾ cup salad oil, 6 tablespoons white wine vinegar, 1½ teaspoons marjoram leaves, ½ teaspoon salt, and ⅓ to ½ cup finely chopped fresh coriander (cilantro).

Drain 1 can (15 oz.) garbanzos and add to marinade. Add 1 small red onion (thinly sliced) and 1 can (2¼ oz.) sliced ripe olives (drained); stir gently to mix. Cover and refrigerate at least 4 hours or overnight.

To serve, shred meat from 1 roasted chicken and stir into marinade. Thoroughly wash 1 bunch (about ¾ lb.) spinach leaves and pat dry. Arrange spinach (cut large leaves in half) on a serving platter and spoon chicken mixture onto center. Serves 4.—*J. H., Santa Barbara.*

Sesame Chicken Salad with Pea Pods

For the dressing, toast ½ cup sesame seed in a 350° oven, shaking pan often, for about 10 minutes or until golden; cool and put in a small bowl. Stir in ½ cup salad oil, 3 cloves garlic (minced or pressed); 3 tablespoons lemon juice, 1½ tablespoons *each* soy sauce and white wine vinegar, and 2 teaspoons finely minced fresh ginger. If made ahead, cover and refrigerate.

Remove ends and strings from ½ pound fresh Chinese pea pods; cut large pods in half and, if desired, steam peas just until tender (or thaw and drain a 10-ounce package frozen Chinese pea pods); combine in a bowl with ½ pound bean sprouts. Shred meat from 1 roasted chicken and add to pea mixture. Pour dressing over and mix gently. Top with ¼ cup sliced green onions. Serves 4.—*G. F., Espanola, N.M.*

Layered Chicken Salad with Tarragon Dressing

For the dressing, stir together until well blended 1½ cups mayonnaise, 1½ tablespoons Dijon mustard, 1 teaspoon sugar, ¾ teaspoon tarragon, ½ teaspoon dry basil, and ¼ teaspoon pepper. Taste and add salt and pepper if desired. (If made ahead, cover and refrigerate.)

Shred 1 small head napa cabbage or iceberg lettuce and arrange in the bottom of a shallow 3-quart casserole. Top with layers of ½ pound mushrooms (sliced), the meat from 1 roasted chicken (cubed), 1 small red onion (chopped), 1 package (10 oz.) frozen peas (thawed and drained), and 1 cucumber (chopped).

Spread dressing evenly over top of salad and garnish with cherry tomato halves. Cover lightly and chill at least 4 hours or overnight. Makes about 6 servings.—*Y. F., Denver.*

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Restaurant owner explains *to a Sunset editor how his chef, Steve Kolkey, prepares their specialty—oven-poached seafood and vegetables with a light foamy sauce*

GLENN CHRISTIANSEN

DARROW M. W

Oven-poached seafood with a foamy tarragon sauce

"Imagination is the most important ingredient in the kitchen!" states Roger Nicolas, owner of La Potinière in San Mateo, California. It is the essence of nouvelle cuisine. Basically this new style of French cooking concentrates on lightness and an artistic approach. Imagination breaks through old boundaries with refreshing results.

This creative style is illustrated in his recipe for Pot-au-feu de Fruits de Mer. A selection of seafood is oven-poached on a bed of julienne vegetables. Then the flavorful poaching juices are drained off and whipped into eggs and butter to make a foamy, light version of béarnaise sauce. This tarragon-flavored sauce is then spooned over the seafood, which is encircled in a nest of colorful vegetables.

For this dish, Roger prefers to use fresh tarragon or pickled tarragon leaves sold in gourmet stores; however, you could use dry tarragon instead. To simplify the procedure, you can make the sauce in a blender or food processor. If you like, chill any leftover sauce to serve cold over vegetables or fish.

Pot-au-feu de Fruits de Mer

- 2 tablespoons butter or margarine
- ½ cup shallots (about 4 large) or onion, minced
- 3 large carrots, cut in thin matchstick-size pieces
- 2 medium-size turnips, cut in thin matchstick-size pieces
- 3 stalks celery, cut in thin matchstick-size pieces
- 1 teaspoon minced fresh or pickled tarragon leaves or ½ teaspoon dry tarragon
- 12 (about 8 oz.) medium-size shrimp, shelled and deveined
- 8 ounces scallops, cut in about 1½-inch pieces
- 2 pounds fish fillets (choose one or several kinds, such as salmon, rockfish, bass, sole, or lingcod), cut in 1½- to 2-inch pieces
- ½ cup dry white wine or vermouth
- 12 hard-shelled clams or mussels
- Bottled clam juice, if needed
- 3 egg yolks
- 1 cup hot melted butter or margarine

In a wide frying pan, melt the 2 tablespoons butter over medium heat. Add shallots, carrots, turnips, and celery. Cook, stirring frequently, until almost tender, 5 to 8 minutes. Stir in tarragon. Turn into a shallow baking or roasting pan (9- by 13-inch or slightly larger). Place shrimp, scallops, and fish pieces over vegetables. Add wine. Cover tightly and bake in a 375° oven for 10 minutes.

Meanwhile, pour a little boiling water (about 3 cups) over clams or mussels and let stand a few minutes until shells ope then insert a strong, thin-bladed knife b tween shell halves to cut muscles. Wh open, cut clam free. After fish cooks minutes, add clams and their juice pan. Cover and continue baking ju until seafood is no longer translucer about 10 minutes longer.

Pour off all pan juices; measure juic and, if needed, add clam juice to mal 1 cup; keep hot for sauce. Cover se food to keep warm.

To make the sauce in a blender or foo processor, beat egg yolks in mixing co tainer. With the motor running, add th 1 cup hot melted butter, a few drops at time at first, then increasing flow to steady stream about 1/16 inch wid After adding half of the butter, grad ally beat in 3 to 4 tablespoons of the h fish juices. Continue adding remainir butter, then gradually beat in remainir fish juices until blended.

To make sauce with a wire whip, be egg yolks in a round-bottom bowl s above barely simmering water (wat should not touch bottom of bowl). Be in butter as described for blender; how ever, once emulsion is formed, you ca add fat more quickly than when using blender. Gradually beat in fish juice after all butter is added. Continue t cook and beat until sauce is hot.

On 6 individual serving dishes or a larg platter, place seafood in center and circl with vegetables. Pour some of the sauc over top; pass remaining sauce at th table. Makes 6 servings.

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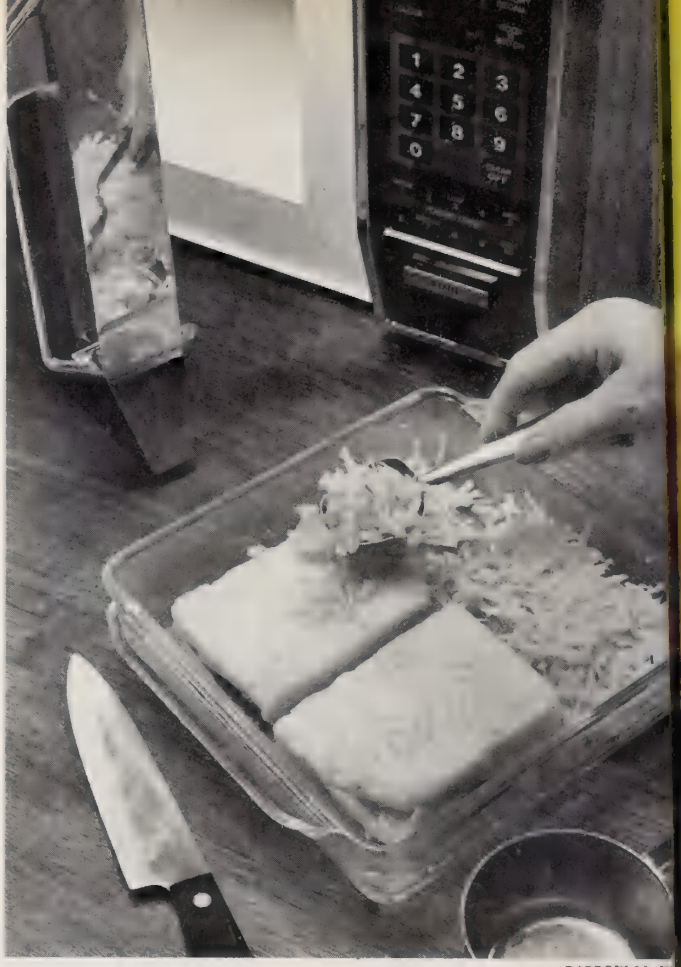
MICROWAVE

The art is only improving. A new cook book hooks you in



Microwave-poached *fish starts with frozen fillets. Shredded carrots make topping*

DARROW M. W

When dinner must get on the table in a hurry, more and more busy cooks turn to their microwave ovens.

Thanks to advances in microwave technology, today's ovens are better than ever. Most now use at least five power levels, making it possible to cook successfully a wide variety of foods. Optional special features, such as electronic controls, browning elements, and temperature probes, have increased their versatility even more.

To help you enjoy the benefits of microwave cooking, *Sunset* has a new, completely revised *Microwave Cook Book* (Lane Publishing Co., Menlo Park, Calif., 1981; $3.95). Among more than 200 new recipes, you'll find many easy, meal-making entrées such as the two featured here.

For microwave-poached fish, you simply take a package of fillets out of the freezer, defrost them slightly in the microwave, then poach them with a shredded carrot topping. The quick chicken dish starts with a broiler-fryer that's cut up; it's skinned, dipped in egg, and rolled in cornflake crumbs for a crusty brown coat.

Carrot-topped Poached Fish

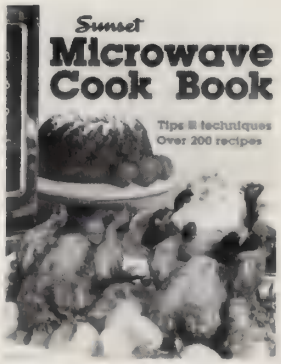
- 3 tablespoons butter or margarine
- 1 cup coarsely shredded carrots
- ½ teaspoon grated lemon peel
- 1 tablespoon lemon juice
- ¼ teaspoon thyme leaves
- 1 package (1 lb.) frozen fish fillets (sole, cod, perch, or haddock)
- 1 tablespoon all-purpose flour
- 3 tablespoons whipping cream

Place 2 tablespoons of the butter in a 9-inch-square baking dish. Microwave, uncovered, on high (100 percent) for 30 seconds. Stir in carrots, lemon peel, lemon juice, and thyme. Push vegetable mixture to one side.

Lay two paper towels on floor of microwave. Place fish package on towels and microwave on medium (50 percent) for 4 minutes, turn package over after 2 minutes. Unwrap fish and cut block in half. Place in bottom of baking dish and spoon carrot mixture over each piece. Cover with plastic wrap.

Microwave on high (100 percent) for 4 minutes. Rotate each fish piece ½ turn. Let stand, covered, for 5 minutes. Microwave, covered, on high (100 percent) for 4 more minutes or until fish flakes readily when prodded with a fork. Transfer fish to a serving platter and cover.

To cooking liquid, add the remaining 1 tablespoon butter and flour. Beat with wire whip until smooth. Microwave, u covered, on high (100 percent) for 2 mi utes or until sauce is bubbly and thic ened. Stir in cream and pour over fis Makes 2 servings.



A year *of recipe testing with variety of ovens is behind new Sunset book*

Cornflake-coated Chicken

- 1 cup cornflake crumbs
- ½ teaspoon *each* crushed dry rosemar and garlic salt
- ¼ teaspoon paprika
- 1 broiler-fryer chicken (about 3 lbs.), cut into pieces and skinned
- 2 eggs, lightly beaten
- 4 tablespoons butter or margarine

In a 9-inch pie plate, combine cornflak crumbs, rosemary, garlic salt, and p prika. Coat chicken with beaten egg roll in crumb mixture. Arrange chicke in a 7- by 11-inch baking dish with mea iest portions towards outside of dish.

Place butter in a 10-ounce custard cu and microwave, uncovered, on high (10 percent) for 1 minute. Drizzle 2 table spoons of the butter over chicken. Cove with waxed paper. Microwave on hig (100 percent) for 8 minutes. Turn piece over and drizzle with remaining 2 table spoons butter. Microwave, covered, o high (100 percent) for 8 to 10 minute or until meat near thigh bone is no longe pink when slashed. Let stand, covered for 5 minutes. Makes 4 servings.

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DARROW M. W

Laced *with citrus peel, glistening marmalade is a tasty morning treat*

Tangy rhubarb marmalade

An economical buy in May market fresh rhubarb gives this sprightly marmalade a pronounced tang. The rhubarb is cooked slowly with orange and lemon slices, resulting in a surprisingly generous amount of sweet-tart preserves with a firm consistency.

Start the marmalade the day before since the ingredients need to blend together overnight before they are cooked.

Rhubarb Marmalade

- 2 pounds rhubarb
- 6 cups sugar
- 3 whole lemons, ends discarded and thinly sliced
- 4 whole large oranges, ends discarded and thinly sliced

Wash, trim, and coarsely chop the rhubarb (you should have about 6 cups); place in a large mixing bowl. Add the sugar and lemon and orange slices; stir thoroughly to mix all ingredients. Cover and chill for 24 hours.

Transfer the mixture to a 4-quart pan; bring to a boil over high heat, stirring constantly until sugar dissolves. Reduce heat to low and simmer gently, stirring frequently to prevent sticking, until preserves are thick, about 1½ hours.

Ladle hot marmalade into hot sterilized pint or half-pint canning jars to within ⅛ inch of top; wipe rims with a damp cloth. Place on scalded lids, then screw on bands. Let jars cool completely on a dry cloth in a draft-free area, then check for seals. Store in a cool, dry place. Makes about 4 pints. □

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INGREDIENTS:
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AY IN YOUR GARDEN:

Most colorful month. And one of the busiest if you take these pages seriously

ıy is definitely a contender for most orful month of the year. Gerbera, ;, marguerites, Shasta daisies, and ny other perennial flowers are bloom- now. Spring annuals, including sweet ıs, add vivid color, and flowering ubs such as rhododendrons, roses, and igelas show off in many areas.

s a delightful time to go shopping at rseries, since these and many other ınts in bloom will be there to tempt u. They can all be planted now. It's o a good time to sow seeds of sum- er annuals and finish planting the veg- ıble garden. (See check list.)

wan Hill' fruitless olive now sier to find

ive trees are attractive, drought-tol- ant trees that thrive in California. owever, if you don't harvest the fruit ee the October 1980 *Sunset* for curing chniques), it can create a mess when drops.

lthough varieties named 'Fruitless' ıve not always proven so, 'Swan Hill' is most 100 percent fruitless due to a ower deformity. Until recently, few holesalers had adequate supplies of this ant, so most home gardeners met with ustration when trying to buy it.

ow several wholesalers stock 'Swan ill': Dungan Nursery in Exeter; Amfac ursery, Select in Brea; Stockdale Com- any in Huntington Beach; and R & G rees in Scottsdale, Arizona. If your retail nursery doesn't have 'Swan Hill', it might be willing to order plants from these sources. (Remember, a nursery must order for you—wholesalers do not process orders from individuals.)

If you already have a messy olive tree, you can act now to reduce fruit set. For best control, spray the tree with a fruit control hormone once small blossoms have started to appear. Spray again 10 days later (be sure to cover nearby flowering plants when you spray).

Don't let your fertilizer dollars vaporize

Plants growing now at a fast pace need fertilizer to keep them in peak condition. However, synthetic fertilizer has become increasingly expensive.

Recent research at the University of California indicates that there can be a significant loss of nitrogen to the air when you spread fertilizer such as ammonium sulfate on the soil surface. Although promptly watering in the fertilizer helps reduce this loss, incorporating it into the soil minimizes it. The researchers noted that slow-release fertilizers do not tend to lose nitrogen into the air as rapidly as most standard fertilizers. (However, their initial cost is usually greater.)

New native plant newsletter

Native plant enthusiasts will welcome the establishment of a free newsletter, *Network*, designed to inform subscribers about efforts to protect native plants. This is not published at regular intervals; issues are sent as new developments occur. To be on the mailing list, send a post card to National Alliance for Plants, c/o Alice Howard, 6415 Regent St., Oakland 94618.

Perking up a dried-out moss basket

As the weather gets warmer, you may notice that plants in moss baskets (such as annuals planted in spring or house plants put outside for the summer) dry out very quickly. If you don't keep up with watering, the moss may become almost impossible to rewet.

One gardener, Gracie Sarmento of San Jose, told us she was able to renew neglected moss baskets quickly by soaking them in a solution of water and soil penetrant. Soil penetrants are available at most nurseries or garden supply stores.

She uses a container large enough to hold the basket (a plastic baby bathtub works) and mixes the liquid soil penetrant according to label directions. Soaking the basket for an hour or less saturates the moss. The soil penetrant appears to have no adverse effect on the plants.

Bee shortages can cause poor yields

Did your cucumbers and melons produce poor crops last season? Were your strawberries undersized? Did your plum and apricot trees have only a few fruits? The cause may have been lack of bees.

Honeybees usually account for about 80 percent of the pollination of dozens of fruit and vegetable crops. When the number of bees declines, gardeners notice drops in their yields.

Unfortunately, the bee population of California has suffered from widespread

Sunset's GARDEN GUIDE

this color show, frequent feeding

glimpse of royal purple brunfelsia (*B. pauciflora* 'Macrantha') is all it takes mpt many gardeners. Each ruffled, white-eyed bloom is 3 to 4 inches across. n densely blooming limbs have more green buds tucked under almost every er cluster waiting to continue the color show. You get weeks of bloom in spring, ıattering through summer, and another full performance in fall. It all happens ıe shade, where color choices are relatively few.

get the profusion of purple flowers and rich green leaves you see here, vers at Weidner's Begonia Gardens in Leucadia, California, stress heavy and uent feeding: twice each month with high-nitrogen fertilizer, or use ed-release capsules plus monthly feeding. For the three biweekly feedings from -November to mid-December, use fertilizer double strength. To prevent rosis, also apply chelated iron twice a year, in spring and fall.

er than feeding, care is routine. Keep the plant moist and out of full sun. Prune to shape. Cool winter temperatures promote better spring bloom, but protect ıts below 30°. If branches are frost-damaged, new growth usually resprouts n the base.

a spectacular hanging basket, plant in a 12-inch or larger container and weight ie down limbs. Plant in the ground for a shrub 6 to 8 feet high.

Sunset's GARDEN GUIDE

DARROW M. WATT

Silky petals *of blue hibiscus flower (Alyogyne huegelii) are a rich lavender, seem to shimmer in sunlight*

use of insecticides. You can help this season by using insecticides in your garden only as a last resort. Also, choose insecticides that are less harmful to bees such as pyrethrins, rotenone, sabadilla, and *Bacillus thuringiensis* (Biotrol, Dipel, Thuricide). Most others are bad news for honeybees. The most bee-destructive insecticide ingredients are cygon, malathion, sevin, and diazinon.

If you use an insecticide, apply it at night when bees are not foraging.

A blue hibiscus?

With striking lavender-blue blossoms, *Hibiscus huegelii* would seem the answer to frustrated hybridizers seeking a blue hibiscus. However, recently this plant was booted out of the hibiscus camp and now goes by the new name of *Alyogyne huegelii* (al-ee-AH-gin-ee HUE-guh-lye).

Although the blooms look very much like hibiscus flowers (see picture at left), foliage is quite different. In contrast to the broad green leaves of the popular *Hibiscus rosa-sinensis,* the gray-green leaves of *Alyogyne* are more finely divided and slightly furry. Also, the shrub has a more open look.

However, no matter what name it's given, blue hibiscus has the advantages of retaining its blooms longer (usually two to three days) and staying fairly small—about 5 to 8 feet tall. Now is a good time to plant. Give these shrubs a sunny spot, and water moderately. Prune or pinch back the plant regularly to encourage bushiness. You should enjoy several bloom cycles each year.

Keeping the bottom of a garden pool clean

Leaves gently floating on the surface of a garden pool may be a pleasant sight

DON NORMARK

Homemade leaf scooper *for pool bottom is two metal-tined rakes joined with a stove bolt and washers*

for a few moments, but once the lea sink to the botton they start to beco muck. Also, since warm weather spee the process of decay, it's important keep up with cleaning now and throu the summer.

One enterprising pool owner devised efficient and easy-to-make "leaf scoope (pictured above) from two metal-tin lawn rakes. He used an electric d with a ¼-inch bit to make holes throu the wooden handles of the rakes, abo 6 inches above each head. Through th he inserted a ¼-inch brass stove b (with washers) to act as an axle. H homemade scooper allows him to r trieve debris quickly from the botto without draining the pool.

MAY CHECK LIST: *Here are the important j*

☐ **Care for roses.** Roses will be putting on their best show this month. To keep blooms coming, cut off long-stemmed blossoms and remove all spent flowers. When flower production lags, you can help hybrid roses gear up for another bloom cycle in six weeks by applying a dose of fertilizer (the old-fashioned roses usually bloom only once).

☐ **Fertilize.** Plants will be growing at full tilt this month, so they need regular feeding. Annuals appreciate fertilizing at three- to four-week intervals. Give rhododendrons and azaleas an acid fertilizer after flowering; camellias appreciate this too if you haven't fed them already.

Plants in containers and hanging baskets do best with half-strength feedings every two weeks, since nutrients quickly leach out due to more frequent watering and porous soil.

☐ **Groom and prune.** Spring-flowering vines and shrubs, hedges, and evergreens can all be pruned, shaped, or thinned this month. You should snip off faded rhododendron blooms and prune tall, lanky camellias to make them more compact.

Stake flower stalks of gladiolus and delphiniums before the stalks get top-heavy—if you wait too long, stems may curve. Cut off faded iris blooms, but don't trim back leaves until later.

☐ **Plant annuals.** There's st time to sow seeds of fas growing summer bloomers such cosmos, impatiens (for shade), ma golds, portulaca, and zinnias. Nur eries should be stocked with beddi plants of these and other annua like cockscomb, dwarf dahlias, p tunias, and annual phlox.

When transplanting from flats, pin off tips and flower buds to encou age the plants to fill out befo bloom. Apply a light mulch, an give the young plants some sha for the first week or two.

☐ **Plant and care for lawns.** you're planning to seed a ne lawn, try to do it as early this mont as possible. Once summer heat a

mpact all-female cucumbers

uring recent years, seed companies ve been offering a greater selection of cumbers with all-female flowers. Such cumber plants usually produce huge ops, because all flowers are fruitful ot the case on plants that carry male wers). This year, two new all-female cumbers with shorter-than-normal nes have been introduced, one for ckling and one for eating fresh.

treamliner' hybrid cucumber is a main-op slicing variety that produces dark een, 10-inch fruits on compact vines ey grow in about a third less space an standard cuke vines).

egal' hybrid gives you the advantage a large crop of early pickling cukes at are all ready for harvest about the me time, so you can process them all once. Vines are semicompact.

eds of male-flowering plants are in-uded in seed packets for pollination. 'Regal' seed packets, males are arked; when 'Streamliner' seeds aren't olored, you must plant all seeds.

treamliner' is sold by Burpee Seed Co., ox 748B, Riverside, Calif. 92502. Regal' is sold by Harris Seed Co., More-on Farm, Rochester, N.Y. 14624.

Herbs get an uplift

Nurseries tend to be well stocked with erbs this time of year, and you may be empted to buy several varieties. But any are so modest in appearance that small herb garden can get lost in the eeds. One gardener in Woodside, Cali-ornia, makes the most of her small ollection by growing the herbs in lanters set on the stairstep structure hown here (all made from redwood).

The stepped shelves allow all the herbs to receive plenty of sunlight, and keep them within easy reach for harvesting. (For more on herbs, see page 112.)

Blame night stalkers for dichondra's bald spots

If brown patches or bare spots begin appearing in your dichondra lawn late this month or in June, don't blame it on fertilizer burn or a visit from the neighbor's dog. It's more likely that your lawn has been invaded by granulate cutworms.

These nighttime feeders hide beneath the soil surface in daylight. They munch on dichondra at this time of year; the flea beetles come later in summer. If cutworm damage is severe, you will have to resort to chemical control. The most effective insecticides are orthene and diazinon. Follow label instructions.

"Instant" compost

For gardeners who would like to cycle kitchen waste into the garden without keeping a compost pile, this simple method does the job:

Put all fruit and vegetable scraps into a plastic bag each day, then close the bag and place in the freezer overnight. In the morning, dig the frozen scraps directly into the top foot of garden soil. As you do, sprinkle nitrogen fertilizer over it.

The freezing breaks down the tissues of the kitchen scraps, and they quickly finish decomposing in the garden. The fertilizer aids in decomposition. □

Sixteen planters *filled with herbs fit easily on stairstep shelving in a sunny spot*

ooming, pruning, feeding, watering, planting

ives, it is difficult to keep germinat-ng grass seedlings moist enough.

You can plant a dichondra lawn now from seeds, sod, or flats. Or put n a subtropical grass, such as hy-brid Bermuda from stolons or sod.

Be sure water is penetrating the soil at least 6 inches. Lawns planted last month need deeper watering now so they'll develop deep roots to help carry them through summer drought.

☐ **Plant strawberries.** Nurseries generally have strawberries for sale now as young plants in six-packs or 4-inch pots. Strawberries do best in loose, porous soil and full sun. Mulch to discourage weeds and to keep berries clean.

☐ **Plant vegetables.** Plant tomatoes and other warm-weather crops such as eggplants and peppers from transplants this month. Set tomatoes 2 to 3 inches deeper than they were in the flats or sixpacks. To encourage fruit production in cool-summer areas, you should plant tomatoes in your garden's warmest, sunniest spot.

Sow seeds of beans, corn, cucumbers, melons, squash, pumpkins, and watermelons. For a long harvest, sow successive crops of beets, bush beans, corn, chard, carrots, and radishes. Where summers are foggy, you can plant loose-leaf lettuce now.

☐ **Propagate plants.** Now is a good time to take cuttings of fuchsias, geraniums, pelargoniums, carnations, marguerites, and other plants since warm weather will speed rooting. Make fuchsia cuttings about 2 to 3 inches long, others about 3 to 6 inches long (be sure to include at least two leaf nodes or leaf joints).

☐ **Water and mulch.** Your garden won't get much help from Mother Nature this month, so keep fast-growing annuals and vegetables and newly planted trees and shrubs well watered. A light mulch will help conserve moisture (keep a ring at the base of plant). Container plants dry out quickly, so water diligently. Established trees and shrubs do best with regular deep soakings.

NORMAN A. PL

Crops climb *four 10-foot-high trellises made of construction wire (6-inch mesh) stretched between wooden posts. Above from left to right are salad and lemon cucumbers, pickling cukes, and two rows of 'Blue Lake' beans. Wood battens (below left) help hold vines to trellises*

Trellis crops...salad, lemon, and pickling cucumbers, 'Blue Lake' beans

Chock-a-block *vegetables and flowers grow in raised beds. (Foot-wide boards within beds make paths for picking from both sides.) In view are peppers, squash, tuberose, tomatoes, asparagus. The sticks at rear are tops of the tomato racks shown on page 260*

The vegetable-training devices you here all reside in one small garden Palo Alto, California. They're just useful whether you garden in Seat Portland, Los Angeles, Phoenix, Al querque, or Denver.

Dorothy and Sterling Silver raise at le 30 different food crops in the back y of their ⅛-acre city lot. Through a co bination of clever mechanics and pr tical experience, they produce a ye round supply of dried, frozen, pickl and preserved fruits and vegetables, well as fresh produce to eat or give aw Wherever possible, plants head up ve cal frames of one kind or another.

Besides the peppers, squash, tomato asparagus, beans, peas, cucumbe chard, sunflowers, and Jerusalem ar chokes you see in these photographs, t

"Take me to your dealer."

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Biscayne Decorative Products

JERRY FREDRICK

Wooden tomato racks *are lightweight, easy to erect. They straddle 4- by 10-foot beds; each rack trains four tomato plants. Ladder-like uprights support rack ends; lengths of 1 by 2's are laid across rungs as plants grow. Tomatoes are easy to reach through open framework*

Peas grow up *tall wire trellises in winter, spring. The Silvers say they'll keep top open in the future: "The arch was fun, but impractical—the vines kept growing straight up"*

garden contains lettuce, celery, radishes, carrots, cabbage, blackberries, guava, and an ample bed of flowers for color and cutting. The Silvers dovetail one crop with another by filling vacated spaces with new plants (grown from seed in flats).

Look at the picture at center on page 258: it shows a good time-saving solution for securing the vines. Instead of tying them individually to the wire trellises, the Silvers hang battens in horizontal pairs from the wire, then as plants grow, new shoots are slipped behind the battens, which press them close enough the wires for tendrils to catch hold.

This year, instead of supporting the wi trellises with wooden posts, Mr. Silv will use 8-foot-tall steel fence stak which are stronger and more durab than wood poles.

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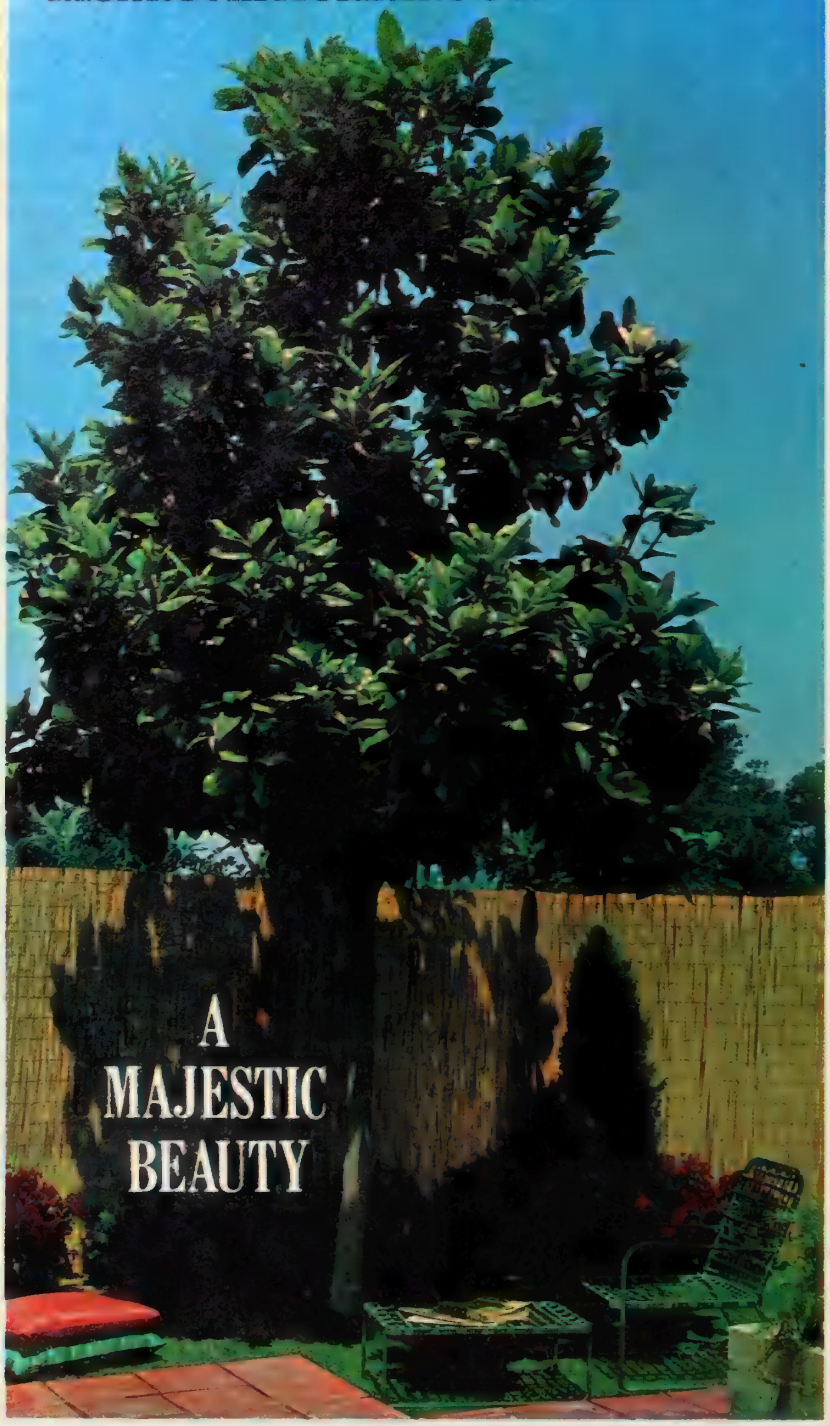
MONROVIA NURSERY CO. PRESENTS



The 'Majestic Beauty' Magnolia tree is truly a gorgeous sight. Huge cup-shaped, fragrant, white flowers in summer draw the attention of all who admire beauty in nature.

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AVAILABLE AT LEADING NURSERIES

TOM

Pumpkin bounty *in Portola Valley, California, garden of Cecil Thomas*

Pumpkin game . . . start soon

For giant jack-o'-lanterns this Hall
een, you don't have to wait to sc
October pumpkin patches set up in
cant lots. To get best-ever pumpki
grow them yourself—or, better still,
the kids do it. In May or June, pl
seeds as shown in the photograph
page 264, then follow the pumpk
growing tricks described here.

To produce an eminently carvable c
like that of the Portola Valley, Calif
nia, gardener pictured above, there
one big secret: divert the growth of
rambling vine from the stem and lea
to the pumpkin itself. How? Read on.

Get the right seeds. If you have roo
for full-size vines (allow a 5-foot squa
for each), try 'Big Tom', 'Big Max', '
Moon', 'Burgess Giant', 'Connecti
Field', or Mammoth types. Garden
growing these sometimes get pumpk
exceeding 100 pounds.

Bush-type varieties require less space
2- or 3-foot square each), but vines p
duce smaller pumpkins; try 'Cinderell
'Funny Face', or 'Spirit'. Any variet
you can't find in nursery seed racks c
be purchased from many mail-ord
seed companies.

Prepare big planting holes. For ea
vine, dig a hole 1 foot deep and 2 f
wide. Refill it with a mixture of ha
soil and half coarse organic matter su
as compost or leaf mold. Dig in seve
shovel loads of well-rotted manure,
use a fertilizer lower in nitrogen than
phosphorus (5-10-10, 6-18-6, 15-30-1

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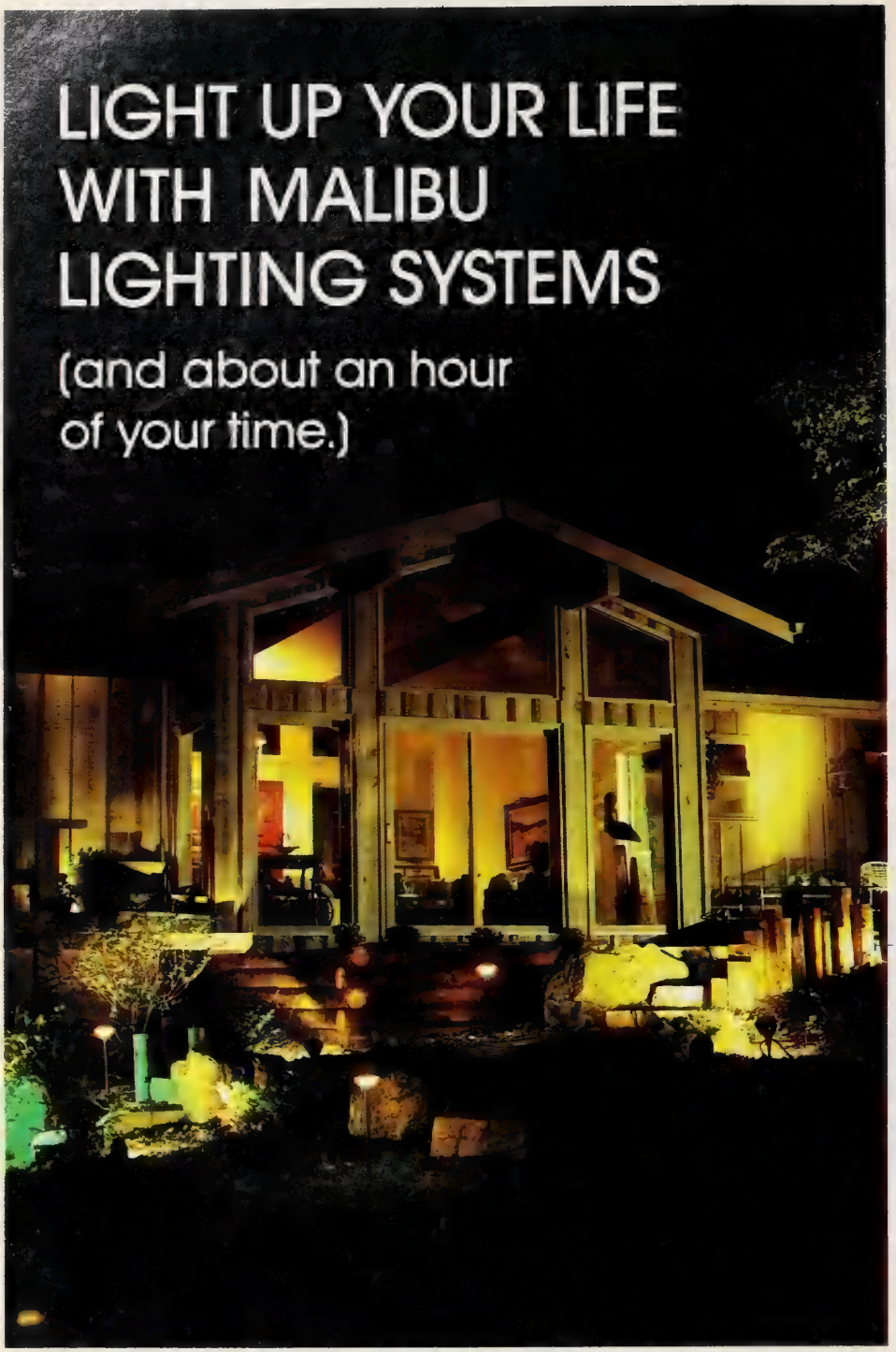

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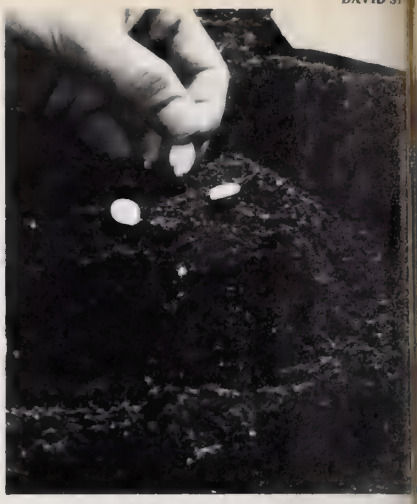

Sow three seeds *an inch deep in circle of soil rimmed by watering basin*

or similar formula), following label structions.

In the center of each refilled hole, sc a circular trench for initial irrigati Sow three or four seeds in each cir about an inch deep. Water frequent When seedlings are about 3 inches t remove all but the most vigorous one.

Pinch out the fuzzy growing tip. Do t after the vine has flowered and the fi few pumpkins are forming. Removi the tip forces plant growth into the fru

Thin to one or two pumpkins. When t fruits are an inch or so in diameter, c off all but one or two of the best-looki ones. Slip a thin board (a roofing shing will do) under each remaining pumpk to protect it from rot or burrowing i sects and rodents.

Pour on the water. This is one case whe water conservation won't help. To get b pumpkins, you must irrigate generous —don't allow soil to dry completely let leaves wilt. But don't water by spri kling overhead.

Fertilize again in mid-August. Use t same low-nitrogen food. The only e ception is if you used a nine-month co trolled-release fertilizer at the start— that case, don't feed again.

Late in the season, vines may develo mildew. Best preventative is good a circulation and avoiding overhead spri kling. Biggest insect problem: vine bo ers. Look for holes in the vine with ye low material emerging. Carefully slit th vine lengthwise with a razor blade an remove the borer.

In fall, harvest pumpkins when vine wither; let them sit in the sun for a wee to 10 days before storing—unless Ha loween comes first. In that case, cu pumpkins from vines a few days befor Halloween even if leaves are intac Leave a "handle" of stem at least inches long when you cut the pumpki from the vine.

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ELLS MARUGG

Here are some *of the succulents and cactus covered in the new edition of Basic Gardening. Grouping at left includes: Kalanchoe blossfeldiana, with red flowers; hens and chickens (Echeveria elegans) in front pots; Dudleya brittonii, the tall one in right-hand pot; and Sedum rubrotinctum, with small leaves, also in right pot*

Kalanchoe

Kalanchoes are tropical natives, preferring a moist environment with little threat of frost. Good indoors or outdoors; attractive potted plants.

Lemaireocereus

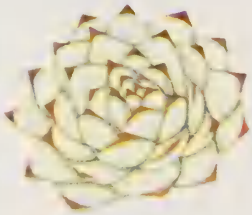
Tall, columnar plant that branches into many ribbed stems. Commonly called orga pipe cactus. Requires sunny location and minimum winte temperatures above 35°F/2°C.

Opuntia

Three distinct groups: prickly pears with flat-jointed pads, one growing out of another; tall cylindrical-jointed chollas; dwarf species with globular or cylindrical stems. Vivid blooms.

Sedum

Small succulents, usually under 8 inches high. Unusual coloring, fast growing. Excellent potted plants. Hardier species make colorful ground covers or rock garden plants.



Sempervivum

Popularly called houseleeks. Small, rosette-forming plants, some less than 1/2 inch wide. Popular rock garden plant.

Stapelia

Succulent resembling cactus; clumps of 4-sided succulent stems. Large 5-pointed flower in summer. Good desert succu lent, tolerating extreme heat. Best in pots.

18-year-old best seller done over with color

One of the four most popular *Sunset* books of all time—*Basic Gardening*—has just been completely revised. The new version came into stores in the past month. The book's full title is *Sunset Introduction to Basic Gardening* (Lane Publishing Co., Menlo Park, Calif., 1981; $5.95).

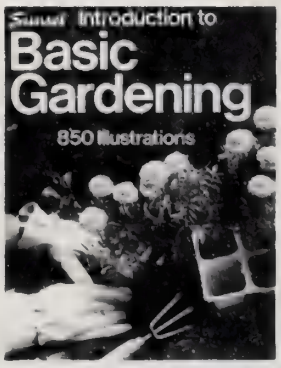
At the top of this page, you see samplings from the book's succulents and cactus section. The color photograph shows four kinds of succulents in a container collection growing in a patio corner. The six color paintings and their captions were selected from the section's 20 cactus and succulent portraits.

The book has 11 other new sections illustrated in color: shrubs, trees, annuals and biennials, perennials, bulbs, ground covers, vines, vegetables, fruit and berries, herbs, and roses.

Another new chapter, illustrated with color photographs, is one called "Using Plants Effectively." Here a series of charts gives basic information about top landscaping choices in such categories as hedges and screens, barriers, foundation plants, parking strips, shady places, dramatic foliage, fragrant flowers and foliage, and plants to attract birds, bees, and butterflies.

The rest of the book consists of 10 illustrated chapters on the fundamentals of gardening: soil, planting, fertilizing, watering, weeds, propagating, heat and cold, plant direction (pruning, pinching, tying), pests and diseases, and tools. You read and see in series of drawings how to do all of the important garden activities —the once-in-a-lifetime jobs, many once-every-year tasks, and some chores that you may find yourself doing each week or even every day.

This book was first published in 1963. Since then 1,600,000 copies have been sold. The title is probably now reaching a second generation of readers. Parents who learned how to kill gophers, buc fruit trees, and mix potting soil from the pictures in the first book may be buying this edition so that their now-adult children can have the same knowledge at arm's reach. □



Well-conditioned *planting soil awaits young marigolds pictured on cover of newly revised book*

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Our concern for gardens is always growing.

NORMAN A. PLATE

Little flowers *form along stems of golden currant, January through June*

Golden currant . . . rare native gem

In 1805, Lewis and Clark collected samples of a yellow-flowering deciduous shrub on their expedition across the Rockies and the Pacific Northwest.

What they had found was the golden currant (*Ribes aureum*)—as attractive 176 years later, and almost as little known. You can get plants or seeds and raise this currant successfully almost anywhere in the West.

Actually there are two yellow-flowering currants, the species *R. aureum* and a variety, *R. a. gracillimum*. The tubular flowers on the first are spicy-fragrant; those on the second are odorless.

Both kinds grow to 4 feet or more. Flowers, which appear in clusters from January to June, are followed by black, red, or yellow edible berries in summer.

In mild-winter areas, these currants will go dormant in summer unless watered regularly; soil must be fast draining. Where winters are cold, they are dormant in winter, need summer water.

Order seeds now; you must chill them for three months (instructions with packet) before sowing in late summer.

Golden currant sources

Theodore Payne Foundation, 10459 Tuxford St., Sun Valley, California (2 miles north of the Burbank Airport) sells plants of *R. a. gracillimum* over the counter, 8:30 to 4:30 Tuesdays through Saturdays.

Redwood City Seed Co., Box 361, Redwood City, Calif. 94064, sells seeds of *R. a. gracillimum;* send $1.50 for mail-order native plant catalog.

Clyde Robin Seed Co., Box 2855, Castro Valley, Calif. 94546, sells seeds of *R. aureum;* send $2 for mail-order catalog.

Yerba Buena Nursery, 19500 Skyline Boulevard, Woodside, California, sells plants of *R. aureum* over the counter, 9 to 5 daily. □

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NORMAN A. PLATE

Low curved wall *of railroad tie sections gives feeling of enclosure to concrete entr patio. Stream bed flows under deck, along house. Before (below), water from runoff collected outside front door*

Over the "stream" to the door

The landscaping of this Tucson garden i simple, direct, and sympathetic to its en vironment. The theme was set by severa palo verde trees left growing on the site Other native plants, plus some exotic admirably suited to the desert, wer added to achieve this natural look.

The rolling terrain was also left un disturbed. For example, the entry wall follows a natural swale. Since the hous obstructed its lot's drainage pattern, rock-filled stream bed was made to carr runoff across the front of the house and around to the side. The wooden deck bridge you see in the top photograp is both decorative and functional—i spans the stream bed.

A complete drip-irrigation system meter water to all plants other than the existing palo verde trees. The more water-demanding plants grow along the stream bed, where they get extra rations.

The landscape architects were Larry Zukowski and Associates.

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EARL CULL

Ten-year-old clump *of Betula nigra 'Heritage' reaches 20 feet*

Heritage birch: it's new, takes heat

Picturesque peeling bark, large gloss leaves, and tolerance to heat and cold are reasons you might want to plant 'Heritage' birch—a new variety being sold in nurseries this year for the first time.

Betula nigra 'Heritage'—a form of the usually dark-barked river birch—is suitable for planting in the same situations where you might otherwise plant European white birch (*B. pendula*).

'Heritage' birch has tan, parchment-like bark, and grows more upright than *B. pendula.* In about 15 years, it reaches its mature height of 40 to 45 feet. It tolerates extended summer heat better than *B. pendula,* which makes 'Heritage' a candidate for use in hot interior valleys. In summer, however, it requires frequent irrigation. 'Heritage' is resistant to bronze birch borer—a serious problem on *B. pendula* in Idaho and eastward.

Buy birches in May at your nursery before they are picked over. Plant using plenty of compost in the soil mix and feed with nitrogen fertilizer. Water often to tide the trees through summer. □

Parchment-like bark *peels in patches*

A door with good looks... and practicality in full swing.

e Atrium Door for at impressions.

The Atrium Door is designed for utiful American homes like yours t command more than just ordi- y sliding aluminum patio doors. d, let's face it, aluminum sliding io doors are ordinary. Often ugly. Today, people want a door that's rgy conscious as well as beauti- . A door with personality and racter that opens up whole new rlds of decorating ideas. The an- er is the wooden swinging Atrium or that warmly accents and mes your view inside and out.

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The Atrium Door swings open d shuts snugly, exactly like your front door. There are no tracks that can get stuck, bent or out of alignment. We make it easy for every family member to open and shut the door, because our door swings on *four* smooth operating commercial grade hinges.

The Atrium Door can replace any standard sliding aluminum patio door or, even be used with our coordinating units to bring the outdoors in throughout.

The cold facts about metal doors will warm you up to Atrium.

According to the ASHRAE Handbook, a double glazed wood door provides an R value 90% greater than that of a single glazed aluminum sliding door in the winter, and

70% in the summer. In other words, the wooden door has 90% more resistance to heat loss in the winter and 70% more resistance to heat gain in the summer.

The wooden frame of the Atrium Door, kiln-dried Ponderosa pine, along with the classic Red Oak Sill, act as a natural insulator. And, combined with double insulated glass, double butyl bedding, and Schlegal Polyflex weather stripping, the Atrium gives you an R value of 2.7 and an air infiltration rate of only 0.09 cfm/sq. ft.

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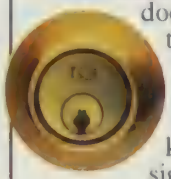
For real security, sliding glass doors sometimes require the old broom-stick-in-the-runner technique. We end that. Our levered one inch armored, keyed dead bolt, designed for us by National Lock is virtually tamper proof. Lever and key dead bolt lock is standard, or you may choose the optional double key dead bolt lock.



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MEMBER F.D.I.C.

Macabee trap . . . it's a bit tricky

WILLIAM APLIN

Macabee trap is set and ready to be inserted into gopher hole. A chain is attached

2. *Trap is deep in hole; carrot greens are going into hole behind it. Chain is anchored to a stake*

. *Cover carrot tops (or other greenery) with soil to seal the hole completely*

4. *It worked. Soil and carrot tops have been removed and trapped gopher (deceased) is being pulled out*

a **tossed coin** must come up heads or ls, the response to these gopher-trap-ıg pictures comes in one of two ways. :her it's "Good, they got him!" or it's ›h, the poor little creature!"

ıe first response invariably is by those ıo have had to wage war with gophers ıt were ruining their gardens. The :ond response is by people to whom pher is just a word.

ıe gopher trap in these photographs is e Macabee—the most popular kind of ›pher trap and the most popular means gopher control, according to several rveys that *Sunset* has made of its read-s. But there are some tricks to using is trap effectively.

here are two ways to position a Mac-ɔee. With the method shown above, ɔu set one Macabee in the lateral tun-el that the gopher dug in order to get d of soil from his underground dig-ings. The tops of these laterals are ıarked by a half-moon or crescent of finely pulverized soil that the gopher has pushed out.

This method works fairly well but has a drawback: you don't know whether or not the gopher has abandoned the lateral tunnel and plugged it up down below. If he has, the trap will just sit there untouched.

A more difficult but surer method is to find one of the gopher's main underground tunnels and set traps inside. Such a tunnel has to be at the base of a lateral tunnel. Find it by probing or digging. If and when you find it, place a Macabee in each direction in the tunnel, with each trap also attached by wire to an aboveground stake. Cover the excavation with a board and pour soil over it or over its edges to make it light-tight. Then wait. Check your traps at one- or two-day intervals.

Macabee traps are sold at some nurseries and garden supply centers; they cost about $3 each. □

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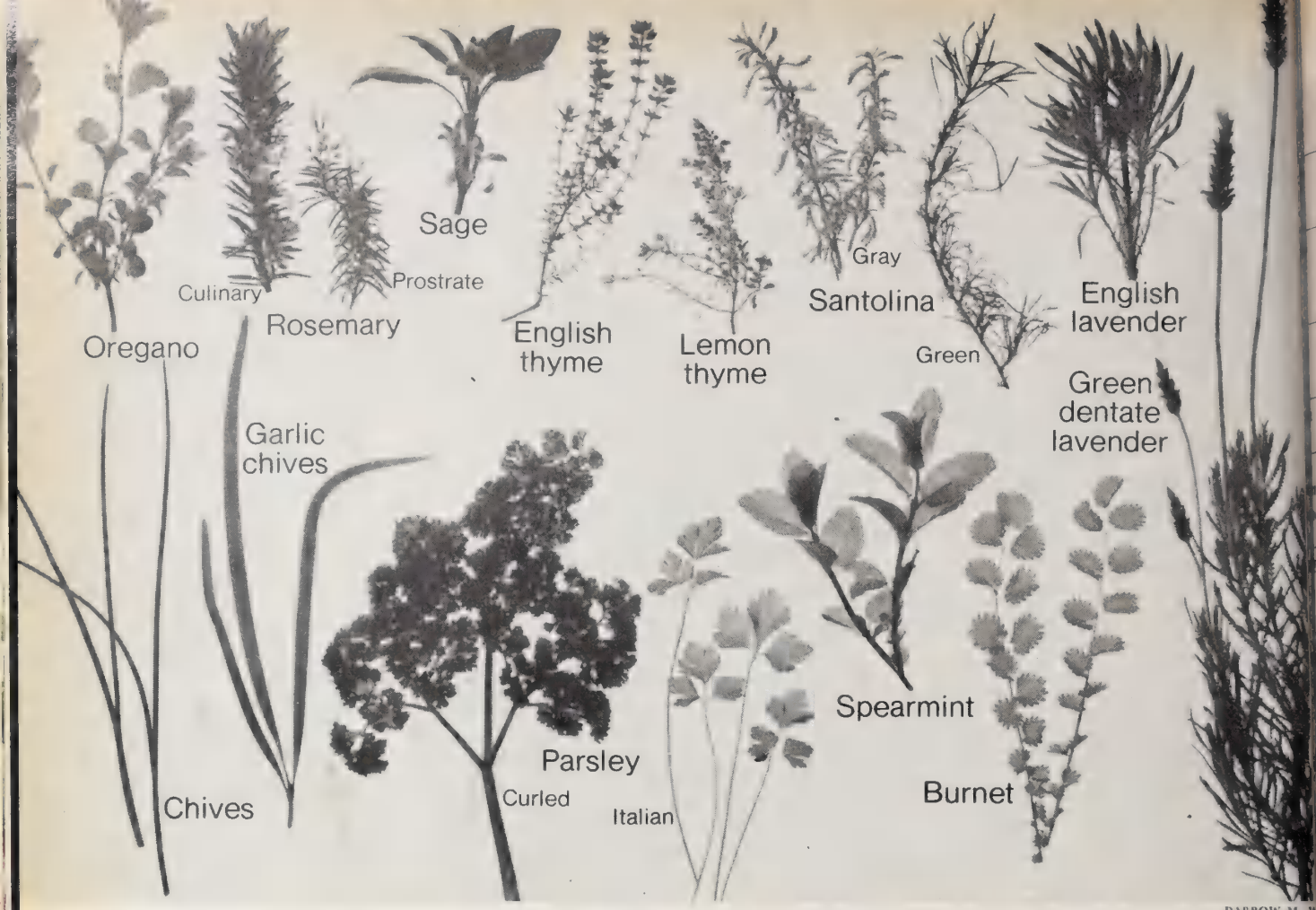

DARROW M. W

Some landscape choices: *top row and right end, 10 candidates for hedges and borders, good looking all year in mild to moderate climate. In bottom row are five for lower-growing edges, and a vigorous traveling ground cover (mint); all except burnet are winter-dormant*

Twenty herbs and the many roles they play . . . from soups to letter scents to mossy mats

Which herbs are musts? Every cook and gardener has different favorites, but you can't go wrong with the 12 traditional favorites heading the chart at right. Eight other choices offer adventures not available from market spice racks.

Most herbs thrive in full sun with average garden care. Some can withstand a month or more with no water or care. The chart notes kinds that tolerate or require shade—these plants typically also prefer more frequent watering and richer soil.

Purchase started plants of long-lived perennials, including oregano, rosemary, all sages, mints, French tarragon (much superior to the seed-started Russian tarragon), lavenders, lemon verbena, santolinas. Space these plants 10 to 15 inches apart in the garden.

Parsley and chives are also slow to grow from seeds and are best started as seedlings. For lush productive plants, space densely, harvest frequently, and pick flower buds as soon as they appear. In fall or early spring each year, let a few plants set seeds to multiply and replenish your supply of plants.

Most annuals and certain perennials are quick and easy to grow from seeds, although plants are also often available—basil, dill, sweet marjoram, thyme, borage, burnet, nasturtiums, French sorrel.

Culinary herbs that also have lovely flowers raise a question. The flowers that brighten bouquets and garden borders diminish the quantity and aromatic quality of leaves. One compromise is to grow enough plants so that you have ple for all uses. On culinary plants you u and value most, keep blooms clipped —or harvest and dry what you need b fore allowing plants to bloom. Especia with leafy annuals and biennials (inclu ing basil, burnet, dill, and parsley), pin off flowers promptly or the leaf crop likely to be short and sparse.

In ornamental gardens, plant the bas structural outlines with herbs such lavender or santolina that have a flow crop, or plant an abundance of decor tive culinary herbs such as sage, thym and others pictured above. Fill gaps wi annuals and less showy perennials.

To see herbs in full glory in the garde turn to page 113. For some simple herb recipes, see page 204.

Twelve culinary classics... many also highly ornamental

	For food	Around the house	In the garden landscape
	Noted for affinity for tomatoes, fish, eggs, green vegetables and salads. Purple 'Opal' makes pink vinegar.	Unconventional ingredient for sachet.	Compact 8- to 14-inch annual. The more you pick, the more it produces—but never enough; plant plenty. Plant outdoors well after frosts; water amply. Watch slugs.
	Leaves add color, crunchiness, and mild onion or garlic flavor to eggs, cheese, fish, potatoes, soup, salad. Use fresh or freeze; dries poorly.	Children enjoy pots to snip at table, share with friends.	Plant densely for a handsome edging. Remove buds, harvest leaves to ground for best growth, appearance. Enjoys rich soil, ample water, tolerates shade. Dies back briefly in winter.
	Use leaves for biscuits, carrots, fish, tomatoes, eggs, salad greens. Add seeds to vinegar, pickle brine.	Dramatic fresh flower or dried seed head.	Feathery 1- to 4-foot annual. Sow early in pots indoors or outdoors soon after last frosts.
	Cut leaves or chunks of stalk into soup, gravy for intense celery flavor.	Dry seed heads for bouquets, wreaths.	Celery-size seedling grows to 10 feet in 3 years. Dies to ground each winter. Prefers rich, moist soil, some shade.
m	Use on almost any meat or vegetable, or poultry, fish, beans, pizza. Marjoram is sweet, subtle, mild; oregano much more pungent.	Blooms of pink- to purple-flowered kinds make lovely fresh or dried bouquets.	The oregano-marjoram family consists of many seemingly similar plants. Taste leaves and plant what pleases you. Most are 10- to 15-inch perennials. Marjoram is generally smaller, a tender perennial.
	For flavor or green garnish, add to soup, salad, meat, fish, raw vegetables. Curled parsley is prettier, flat Italian is stronger.	Ferny-textured greens make fresh bouquets.	Thick, bright green growth makes a low, lacy edging if closely spaced. Best with ample water; takes sun or part shade. Harvest all year except in coldest winters. Seeds slow to germinate; seedlings are easier, faster.
ary	Strong flavor, stiff-leafed; chop or pulverize thoroughly, use sparingly. Use for meat, fowl, green beans, carrots, in biscuits, as a basting brush for broiling or barbecues.	Upright kind makes a unique living Christmas tree. Also effective wreath, swag, sachet, potpourri.	Striking as single plant or as hedge, ground cover. Classic culinary kind has broader, fleshier, more pungent needles, upright growth to 5 feet. Other kinds vary in form and flower color. Harvest all year. Protect from freezes. Avoid very acid soil.
	Potent—use with meat, poultry, biscuits, corn, baked onions, sparingly in salad dressing.	Dry multitiered seed stalks. Use fresh blooms with roses.	Many kinds, colors, sizes—dwarf gray, golden, 'Holt's Mammoth' (4 feet high and wide), and other giants with fruity-smelling leaves. Smaller kinds are useful hedges.
int r e of mints)	Crush leaves into peas, lamb, or veal sauce; steep for tea or iced beverages; snip into green or fruit salad. Refreshing garnish.	Add to sachet or dream pillows—a special favorite of children.	Lush, invasive growth survives anywhere with adequate moisture, in sun or shade. Restrain by planting in pot, or use as a free-traveling ground cover. Shabby in winter; cut to ground and dry excess.
n on	Full-bodied flavor, tender texture. Use plain or in sauce for fish, tomatoes, leeks, mushrooms, greens.		Sprawls to 2 or 3 feet. Dies back each winter, won't return until mild. Mark position, protect from slugs. Tuck into unobtrusive corner or a pot. One plant usually ample.
e	Mild, mouth-watering choice in butter, dip, vinegar; on meat, poultry, fish, vegetables. Lemon thyme gives two flavors at once.	Dry sprigs for sachet, culinary bouquets, wreaths.	Fine-textured, 5- to 10-inch trailing bushes or flat moss-like mats you can walk on. Gold- and silver-edged forms especially effective. Bushes may need replacing every 2 to 3 years, but plants self-sow readily.

Eight others... for fragrance, flowers, offbeat culinary use

e	Flowers add startling color to iced beverages, green or fruit salads. Young leaves taste like cucumber.	Dry flowers in borax for potpourri.	Fuzzy, 3-foot stems are dotted with ¾-inch sky-blue stars that have a drop of nectar at the base. A child-pleasing annual that's easy to grow. Self-sows abundantly.
et	Cucumber flavor when fresh, nutty when dried. Use in green salads, butter, vinegar, dips, as garnish.	Dusty-rose flowers make intriguing bouquets.	Low tufts similar to parsley but blue-green. Water regularly. Harvest year-round. Reseeds itself.
nder	Distinctive flavor. Try flowers on peas, roast, to make vinegar for fruit, lamb, vegetables.	To scent letters, fresh or dried bouquets, potpourri. Goldfinches like seedheads.	Bright green to gray foliage all year; pale to deep purple spikes bloom many weeks. Dwarf forms 'Hidcote' and 'Munstead' grow 1½ to 2 feet, about half the size of common English lavender.
on na	Leaves add citrus tang to fruit, vegetables, meat, cracker spreads. Steep for tea or fruit punch.	A favorite sachet. Delicate scent and flowers for nosegays.	Light green shrub 4 feet or taller, filmy white flowers. Drops leaves in winter; move indoors where cold. Touching releases pervasive fragrance.
urtium	Peppery flowers add novel color and bite to salad, make bright orange vinegar. Leaves, buds also edible.	Orange, yellow, and red flowers make bright bouquets.	Handsome border along herb or vegetable paths. Bush, semitrailer, or vine. Plants die with frost, volunteer when mild; prefer rich, moist soil, sun; tolerate partial shade.
apple	Ambrosial flavor and aroma for fruit, hot or cold beverages. A classic waiting to be discovered.	Hummingbirds feed from scarlet flower tubes fall into winter.	Spurts from 2-inch pot into 4-foot soft green bush in 3 to 4 months. Cut to ground each spring as new shoots appear. Winter indoors where cold.
olina	Not used in food.	Flowers dry gold, brown, or black, depending when cut.	Pungent bright green or gray shrub 2½ feet tall, 3½ or more across, with yellow-green or gold buttons for weeks in summer. Prune after bloom to maintain shape.
ich el	Spinach-like greens have a sour tang; excellent in soup, green salad, as garnish.	Seed stalks dry tan to rust, depending when cut.	With ample water, 8- to 12-inch clumps grow like weeds. Grows in sun or shade. Green all year in most climates.

Magic month . . . the last frost, the first big burst of bloom, some very earnest gardening

Sunset's HIGH-ELEVATION GARDEN GUIDE

May could be called the month of transformation in high-elevation gardens. Almost overnight, everything seems to bloom, and trees and shrubs burst into leaf. Sometime this month, the last spring frost will pass, so the gardening season can begin in earnest. Gardeners take your marks, get set, *go!*

Trumpet creeper—a quick, colorful climbing vine

Native to the eastern U.S., trumpet creeper (*Campsis radicans,* also sold as *Bignonia radicans*) also thrives in high-elevation gardens. It climbs by aerial rootlets that cling to wood, brick, or stucco.

Plant trumpet creeper so that it has plenty of room to grow—mature plants often reach 40 feet or more. They're useful as summer screens (but lose their leaves in winter), or as covers for arbors or fences.

From August until frost, arching sprays of horn-shaped orange tubes put on a show. Flowers come in clusters of 6 to 12. Plants do best in full sun.

Trumpet creeper vines are sold two ways: buy bare-root plants in late winter and early spring; or for planting now, you'll probably have to buy plants in containers. Gallon-size plants cost $2 to $4, 5-gallon-size plants about $8 to $13.

Looking for an unusual plant? Try the State Arboretum of Utah sale

If you're looking for an unusual plant, there's a good chance of finding it at the second annual state Arboretum of Utah plant sale. You'll be able to choose from a wide variety of cactus and succulents, orchids and tropical plants, trees, shrubs, herbs, annuals, offbeat vegetables and seeds not generally available at local garden centers. You'll also be able to your toughest gardening questions panel of expert nurserymen and culturists.

This sale will take place Saturday, 30, from 10 A.M. until all plants sold. The place: the Arboretum Ce directly east of the Park Building or University of Utah campus. For m information, telephone (801) 581-53

How to grow celery that's "tall and white, clean and bright"

Crisp, juicy celery is a treat, and mountain gardens May is the beginn of celery-planting season. Although s cess with celery does not come eas you can increase your chances of abundant crop if you take these steps.

Start from transplants. Celery is hard grow outdoors from seed. Buy nurs transplants, or start your own indo for transplanting later. Put plants inches apart in rows 18 to 24 inc apart. In nurseries, started 6-packs celery sell for about 75 cents to $1.25

Grow in medium to heavy clay so Though celery does best in sandy soil wetter parts of the country, it pref

Two-inch-wide *orange flowers belong to trumpet creeper vine (Campsis radicans). It blooms in late summer*

Tall cans *with bottoms cut out are placed over young celery plants to give them long white stalks in the Valmore Strange garden, Spokane*

DON NORMARK

s in mountain areas—they hold a vater and nutrients best.

o of water and nitrogen. To get cy crops, plump it up with water and nitrogen, more than etables. Water often; feed 30 f planting with a high-nitrogen Repeat feeding a month later.

grow long, white stalks. High nsity in mountain gardens often elery stay in tight, stubby Place an open-ended container milk carton or coffee can) over ants to force them to grow long his also blanches the celery, talks a bit tastier. See the picwer left.

ws for walnut lovers: rdy 'Ambassador'

h-altitude gardeners, growing ype walnuts is a real challenge of cold winters and the short season. However, a recently in- and extra-hardy variety of walzed 'Ambassador' looks like a oducer in areas where winters cold to grow other varieties.

ador' is a self-fertile variety hers need cross-pollination) that ed in Twin Falls, Idaho. It's pre- often beginning to bear round-inch-diameter nuts after two or ars. The tree will ultimately grow ht of 30 to 40 feet; it has proven about −25°.

Ambassador' on a south-facing ater it faithfully, since the tree rought resistance. You can order by mail from the Dave Wilson , Box 1030, Hughson, Calif.

If you use expandable peat pots to start seeds . . .

Expandable peat pots are great for starting seeds indoors: they're inexpensive, and the compressed disks of peat moss store in very little space. The manufacturer claims that once your seedling is ready to transplant, you simply drop the seedling and peat disk into prepared soil.

However, Denver gardener Phyllis Corchary has discovered that the plastic covering around the peat pot doesn't disintegrate quickly enough. The result can be stunted plant growth when roots have a hard time growing through the fine plastic mesh.

So, just before planting, she peels the plastic away from the rootball, as pictured at right. By the time seedlings are ready to transplant, the roots have knitted the peat into a rootball that won't fall apart when you peel away the plastic.

Marigold seedling *ready to transplant has plastic mesh removed from expandable peat pot so roots grow unrestricted*

It's time to enter Sunset's 1981 garden contest

Home gardeners anywhere in the 13 Western states are eligible to enter *Sunset's* 1981 Garden Contest. This year, we'd like very much to hear from gardeners in intermountain and high-elevation areas of the West. Your garden can be any kind: ornamental, flowers, greenhouse, vegetable, low or high-maintenance, water gardens, whatever.

To enter, send the following information to Garden Contest, *Sunset Magazine*, Menlo Park, Calif. 94025, before the September 1 deadline: your name, address, daytime telephone number, five to eight recent snapshots of your garden, and a *brief* written description of your garden.

Last year there were two contest winners from high-elevation areas of the West: Walter and Judith Purdue of Fort Collins, Colorado, and Frank and Alice Eychaner of Story, Wyoming. The Eychaners' garden was entered by their daughter and next-door neighbor, Dolly Reno. If you know outstanding gardeners who are too shy to enter the contest, perhaps you could enter them.

For more details on *Sunset's* garden contest, turn to page 98. □

MAY CHECK LIST: *Much to do this month*

☐ **Care for bulbs.** Remove faded flowers from spring-blooming bulbs such as daffodils and tulips. Leave green tops so bulbs store energy for next year's bloom. Feed plants with a high-phosphorus fertilizer as soon as they finish blooming. Snip off seed heads.

☐ **Fertilize lawns.** Lawns are starting to grow vigorously this month. Apply a high-nitrogen fertilizer and water it in thoroughly.

☐ **Harden off seedlings.** Move started flower and vegetable seedlings to a coldframe or other protected area. Hardening off gets tender seedlings accustomed to intense sunlight and to cool evening temperatures.

☐ **Plant annuals.** Start these annuals from seed, or set out started nursery plants: African daisy, bachelor's button, calendula, clarkia, cleome, godetia, linaria, lobelia, pansies, snapdragons, sweet alyssum, sweet William, verbena, and violas. At month's end, plant heat-loving marigolds, petunias, and zinnias.

☐ **Plant from containers.** Before summer heat sets in is a good time to plant nursery-grown shrubs, trees, and ground covers.

☐ **Prune some plants.** Tip-prune evergreens to encourage bushy, full growth. Remove winter-killed branches from pyracantha, Oregon grape, yews, junipers, and euonymus. Finish pruning roses early this month, but hold off on pruning spring-flowering shrubs until after bloom. Cut old raspberry canes back to 4 or 5 feet.

☐ **Set out vegetable seeds or transplants.** Early this month, sow a second crop of beets, broccoli, carrots, lettuce, peas, radishes, and Swiss chard. Late in the month, sow seeds of heat-loving beans, cantaloupe, corn, melons. Keep soil moist until seeds emerge. At month's end, set out started tomatoes and peppers, but be ready to provide frost protection on chilly nights.

☐ **Water.** Begin a regular deep-watering program for lawns, ground covers, shrubs, and trees.

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STEVE W.

Rhododendron study group *in UC Botanical Garden views California hybrid 'Lemon M*

Butter yellow Vireya *or Malesian rhododendron flourishes outdoors in Strybing Arboret*

It's Bay Area rhododendron month

May is peak month for rhododendrons. And the Bay Area's best-known collection is in the McLaren Rhododendron Dell, an 18-acre parcel between the Conservatory and the California Academy of Sciences toward the eastern end of Golden Gate Park, San Francisco. Less dazzling to the eye, but probably more interesting to the student, are smaller collections of relatively frost-tender rhododendrons that thrive outdoors only in a mild-winter, cool-summer climate.

Three kinds of tender rhododendrons are well represented at two other sites: Strybing Arboretum (in Golden Gate Park near Ninth Avenue and Lincoln Way) and the University of California Botanical Garden (on Centennial Drive in Berkeley, east of Memorial Stadium).

Most unusual are the Vireya or Malesian rhododendrons, natives of the island world from the Malay Peninsula and Taiwan to Australia, with the bulk coming from New Guinea. About 50 grow in the Demonstration Garden in Strybing Arboretum and several dozen more west of the arboretum nursery.

Rhododendrons with huge leaves (t feet long or more) grow in Stryb south and west of the bridge that cros the duck pond; a few grow on the ba west of the nursery. Many grow in UC Botanical Garden's Rhododendr Dell, a deep, shaded canyon beyond cactus plantings.

Most of the Maddenii rhododendro (often deliciously fragrant and often w large flowers) will have finished bloo by May Day, but look for straggl near the path between the main and garden entrances to Strybing, and in t UC Botanical Garden.

From April 30 to May 3, rhododendr enthusiasts from all over the country w be meeting in San Francisco when t California Chapter of the Americ Rhododendron Society will be host to parent group at the Sheraton-Pala Hotel. The convention has as its then "Rhododendrons of the Pacific Basin it is open to members only. For inform tion on membership, write to Executiv Secretary, Fran Egan, 14635 S.W. Bu Mountain Rd., Tigard, Ore. 97223.

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MAY EVENTS: Many shows, also tours, workshops, field tri

For plant sales, see pages 278 and 290.

NORTHERN CALIFORNIA

Felton. May 1. The 57th annual flower show by the Valley Garden Club. Place: Community Hall, State Highway 9. Hours: 1 to 4 P.M. Donation: $1.50.

Pleasanton. May 1, 2, and 3. The Home & Garden Expo offers gardeners plant, garden building, and tool information. Place: Alameda County Fairgrounds, on Bernal Rd. off Interstate 680. Hours: noon to 8 Friday; 10 to 8 Saturday; 10 to 6 Sunday. Entrance fee: $3.

Palo Alto. May 1 through 31. "May Celebration of Trees" presented by the Department of Public Works, Parks and Open Spaces Division. Displays during regular hours at the Junior Museum, 1451 Middlefield Rd., will cover tree growth, identification, and the value of trees to cities. Lectures at the Cultural Center, 1313 Newell Rd., will be on the following subjects: *May 5:* heritage oaks of Palo Alto by the Garden Club of Palo Alto at 10 A.M. *May 15:* trees and birds of Palo Alto at 8 P.M. *May 22:* history and tales of Palo Alto trees at 8 P.M. *May 23:* urban forestry from 10 to 12:30, panel discussion at 1:30. For picnic lunch possibilities, telephone the tree committee at (415) 326-5210. Tree tours of the city will be offered at both locations. The Palo Art Club will display foliage and tree-related art at the city's libraries.

Palo Alto. May 2. Flower arranging exhibit by the Peninsula Ikenobo Ikebana Society. Place: Buddhist Church, 2751 Louis Rd. Hours: 10 to 5 Free.

Cupertino. May 2 and 3. Show of iris flowers and arrangements by the Clara B. Rees Iris Society. Place: Vallco Fashion Park, 10123 N. Wolfe Rd. just off Interstate 280. Hours: noon to 5 both days. Free.

Sacramento. May 2 and 3. Annual show presented by the Sacramento Cactus and Succulent Society. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

San Jose. May 2 and 3. Santa Clara County Rose Society show cosponsored by the Parks and Recreation Department. Place: Leininger Community Center, Kelley Park, 1300 Senter Rd. Hours: 2:30 to 9 Saturday; 9 to 4 Sunday. Free.

San Mateo. May 2 and 3. Thirty-fifth annual show by the San Mateo County Rose Society. Place: Security Pacific National Bank lobby, El Camino Real and Fifth Ave. Hours: 2 to 8 Saturday; 10 to 5 Sunday. Free.

Redwood City. May 3. Twenty-fourth annual show by Peninsula Rose Society, with cooperation from the Redwood City Parks and Recreation Department. Place: Community Activities Building, 1400 Roosevelt Ave. Hours: 1 to 5. Free.

Santa Rosa. May 3. Annual show presented by the Redwood Empire Rose Society. Place: Luther Burbank Art and Garden Center, 2050 Yulupa Ave. Hours: 1 to 5. Free.

San Francisco. May 4 through 9. The Strybing Arboretum Society is hosting the annual meeting of the American Association of Botanic Gardens and Arboreta. Headquarters will be the Villa Hotel, 4000 S. El Camino Real, San Mateo. Events and field trips in the area will include Strybing Arboretum, Golden Gate Park, San Francisco; Regional Parks Botanic Garden, Tilden Regional Park, Berkeley; University of California Botanical Garden, Berkeley; *Sunset Magazine*, Menlo Park; and Filoli, Woodside. A schedule of the programs and fees is available at the Strybing Arboretum Society office, Hall of Flowers, Golden Gate Park, Ninth Ave. and Lincoln Way.

San Mateo. May 9. Tour of five Peninsula gardens sponsored by the San Mateo Arboretum Society. Hours: 11 to 3. For tickets ($6), telephone (415) 591-7288 or mail a check payable to the San Mateo Arboretum Society to Box 1523, San Mateo, Calif. 94401; include a self-addressed, stamped return envelope.

Saratoga. May 9. Workshop on growing and using materials for dried flower arrangements and herbal crafts. Place: Saso Herb Gardens, 14625 Fruitvale Ave. Hours: 9:30 to 3. Fee: $15 (includes supplies) Bring a bag lunch.

Capitola. May 9 and 10. Monterey Bay Iris Society show. Place: Capitola Mall, 1855 41st Ave. Hours: noon to 5:30 Saturday; noon to 4 Sunday. Free.

Citrus Heights. May 9 and 10. Rose display by the Sierra Foothills Rose Society. Place: Sunrise Mall, Sunrise St. and Greenback Lane. Hours: 9 to 9 b days. Free.

Fresno. May 9 and 10. Show of Afri violets and other gesneriads presente the Central California African Vi Society. Place: Fresno Art Center, 3 Yale Ave. Hours: noon to 6 Saturd noon to 4 Sunday. Free. There will b sale of plants.

Mountain View. May 9 and 10. Ann free show and sale of plants by the C tus and Succulent Society of San J Place: Mayfield Mall, San Antonio I and Central Expressway. Hours: 10 5:30 Saturday; noon to 5 Sunday. Fre

Carmel Valley. May 16 and 17. Ann flower show by Carmel Valley Gard Association—also a tour of low-main nance gardens May 17 from 10:30 to Place: Tularcitos School, 35 Ford R Flower show hours: 1 to 5 Saturda 10:30 to 4 Sunday. Tickets for the ga den walk ($4) will be sold at the show.

Citrus Heights. May 16 and 17. Thi annual rose show sponsored by Founta Square. Place: Fountain Square nurse complex, 7115 Greenback Lane. Hou noon to 6 Saturday; 9 to 5 Sunday. Fre

Cupertino. May 16 and 17. Flower sho by the De Anza chapter of the America Rhododendron Society. Place: Cupe tino Nursery, 10431 N. De Anza Blv Hours: 12:30 to 5 Saturday; 9 to 4:3 Sunday. Free.

Sacramento. May 16 and 17. Annu show presented by the Sacramento Ge ranium Club. Place: Iva Gard Shepar Garden and Arts Center, 3330 McKir ley Blvd. Hours: 2 to 6 Saturday; 1 to 5 Sunday. Free.

Stockton. May 16 and 17. Bonsai ex hibit by the Stockton Bonsai Club Place: Micke Grove Memorial Parl building, off State 99 between Stockto and Lodi. Hours: noon to 6 both days Donations taken at the door for doo prizes given away each day at 3 P.M Parking fee: $1.

Walnut Creek. May 16 and 17. Flowe show by the Heather Farm Garden Center Association. Place: Heather Farm Community Center, 301 N. San Carlos Rd. Hours: 10 to 4 both days Free.

Saratoga. May 16 and 23 Two-day workshop on culture and use of various herbs. Place: Saso Herb Gardens, 14625 Fruitvale Ave. Hours: 9:30 to 3 both

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A special invitation to preview the new

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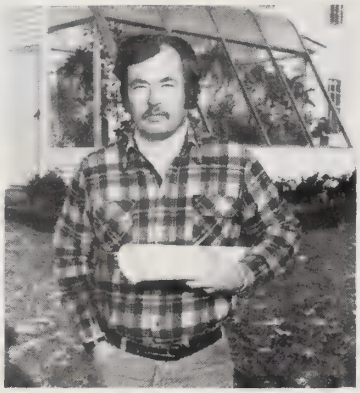
A solar room addition that will soon make other greenhouses obsolete --

By Bill Yanda, Co-Designer



Last month in these pages I wrote about a totally new kind of greenhouse I'm convinced will change forever the way people think about indoor gardening and living under the sun...A greenhouse that not only will heat itself, but will help heat your home as well...A solar heated sunspace you can use for many purposes, and enjoy 12 months of the year.

Very shortly we'll be ready to introduce the Garden Way Solar Greenhouse to American homeowners. So I want to bring you this special invitation to learn much more about this amazing product before it becomes known to the general public.

Heats itself -- and your home

Ordinary greenhouses are enormous fuel wasters in wintertime, very costly to operate. But as an addition to your home, a properly designed solar greenhouse not only warms itself with the sun's free radiant energy -- but can help heat your house as well.

How and why it's different

A common, uninsulated "glass box" greenhouse admits sunlight from all angles -- allowing massive heat loss in winter and making it unbearably hot in the summer.

The Garden Way Solar Greenhouse will automatically moderate interior temperatures, winter and summer. We've done this by using insulated glass angled to capture the maximum solar heat in winter while minimizing summer time overheating.

Our effective insulation retains heat during cold weather. What's more, we've developed an automatic air control system, and a remarkably efficient thermal storage system to help you use that heat for your home.

The total result is a delightful sunny environment where plants will thrive and people will enjoy living.

Shrugs off heavy snow and high winds

Structurally the Garden Way Solar Greenhouse will be strong enough to easily support a 50 pound per square foot snowload overhead and will resist gale force winds.

It's versatile enough to be attached to your house in several ways, and can be assembled easily by two people in a single weekend.

Our greenhouse is not for the "throwaway culture". It employs components carefully chosen for attractiveness, quality and durability. Built to last for generations, it will enhance both the beauty and investment value of your home. It will enrich your life, and help you gain greater freedom from out-of-control food and fuel costs.

Send now for your Preview Package

That's just part of the story. The Garden Way Solar Greenhouse will be ready for sale very soon, but right now I want to send you a special Preview Package that will tell you a great deal more.

You'll get detailed specifications, a report on year-round greenhouse gardening, and much more. And you'll be among the first to have an opportunity to order one of your own.

Mail the coupon below -- and share our growing excitement as we prepare to introduce this amazing greenhouse. Your Preview Package is free. There's no obligation, of course.

Bill Yanda, president of Sunplace, Corporation, has designed and built over 80 customized attached solar greenhouses. Almost every solar greenhouse in the country has been based on design principles in his landmark book, The Food and Heat Producing Solar Greenhouse

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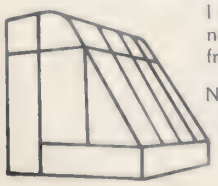

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dates. Fee: $30. Bring a bag lunch cup. Advance reservation is nece telephone (408) 867-0307.

Oakland. May 17. Annual show sented by the East Bay Rose So Place: Lakeside Park Garden Ce 666 Bellevue Ave. Hours: 10 to 4.

Weott. May 17. Thirtieth annual fl show by the South Humboldt Ga Club. Place: Agnes J. Johnson Ele tary School. Hours: 2 to 6. Free.

San Francisco. May 22. Thirty-fiftl nual convention of the African V Society of America, hosted by northern California council. P Sheraton Palace Hotel. Hours: 9 t Donation: $1. Entries will include mestic and international groups, commercial displays.

Napa. May 31. Show by the Napa V Bonsai Club. Place: Senior Center, Jefferson St. Hours: 11 to 5. Free.

COLORADO

Denver. May 23 and 24. Show prese by the Denver Orchid Society. Pl Denver Botanic Gardens, 1005 York Hours: 9 to 4 both days. Free.

Denver. May 28. Lecture offered by Colorado Cactus and Succulent Soci Speaker will be Bruce Bayer, directo Caroo Botanic Garden, Republic South Africa. Place: The Hall, Der Botanic Gardens. Time: 7:30 P.M. F

Denver. May 30 and 31. Iris show plant sale presented by Region 20 of American Iris Society. Place: Den Botanic Gardens. Hours: 1 to 4:45 S urday; 10 to 4:45 Sunday. Free. A th sand of the newest irises will be in blo in the American Iris Society Convent planting. Telephone the gardens to ve the bloom period: (303) 575-2547.

What's your garden club planning?

Would you like us to publicize a garden show or other special event to be held by your garden club?

If so, simply send us the following information: time of the event (both date and hours); location (building, street address, city); types of exhibits; admission fee; and any other information that would interest our readers.

Fact sheets should reach us before the 15th, three months in advance of the month you would like the event mentioned in *Sunset*. Mail all information to Garden Events Editor, *Sunset Magazine*, Menlo Park, Calif. 94025.

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Foam plastic container with 128 individual seedlings

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1½- by 6-inch plastic

4- by 4-inch plastic

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DAVID STUBB

Which one's the "criminal" *in this lineup? For eventual fuelwood, it's the overgrown, rootbound, expensive ($4.29) gallon-can tree*

Growing eucalyptus for firewood. Here is hel

Dear *Sunset* Garden Editor:

Regarding your February 1981 story on growing your own firewood, you have me intrigued, but stymied! Where do I find 2 dozen *Eucalyptus saligna* or *E. robusta* seedlings? We can't find them anyplace nearby at any price. Help!

Maryann Dunn

Maryann Dunn

Judging by the number of letters we've received, the p of Maryann Dunn is typical of many *Sunset* readers want to grow eucalyptus trees for firewood but are ha a hard time finding the seedlings.

In the grow-your-own-firewood story (it begins on page of the February 1981 *Sunset*), we recommend planting from containers smaller than 1-gallon size (see photog above). Some reasons for planting small trees: they are expensive, have less chance of being rootbound, and

Where you can buy. Here is a list, continued on page 288

Supplier	Eucalyptus species they grow and size of container they're sold in	Minimum order	Price	Lead tim for order
Austra-Flora of California 8937 Encina Ave. Fontana, Calif. 92335 (714) 822-1513	About 250 species of eucalyptus, sold in flats of 16 plants each	1 flat	$8 per flat	4 months
California Dept. of Forestry 5800 Chiles Rd. Davis, Calif. 95616 (916) 753-2441	*E. camaldulensis, dalrympleana, globulus, sideroxylon,* and *viminalis*—sold in open-ended 1½-inch-square plastic containers, 6 inches high	100 trees	$50 per hundred	No lead tin if trees in stock
Chimaera Ag Associates 6735 Sonoma Hwy. Santa Rosa, Calif. 95405 (707) 539-2000	*E. camaldulensis;* other species grown on contract. Two sizes of container: 1 inch square, 6 inches deep; 2½ inches square, 7 inches deep	1,000 trees	Small, 50 cents; large, $1	About 5 months
Coastal Creek Tree Farm RB 45 Olivenhain, Calif. 92024 (714) 756-2198	*E. camaldulensis, globulus, robusta, rudis, saligna, tereticornis, trabuti,* and *viminalis*—sold in hexagonal 1⅝-inch paper pots, 4 inches high	500 trees	18 to 25 cents per tree	2½ to 3 months
Earth Products Nursery 1631 Parvenu Lane Fallbrook, Calif. 92028 (714) 728-2234	*E. camaldulensis* and *saligna* grown in 2 sizes of plantable hexagonal paper pots measuring 2 inches wide, 4 inches deep or 1½ inches wide, 9½ inches deep; 192 trees per flat	1 flat	Small, 20 cents; large; $1	3 months

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Listed below, 14 more eucalyptus growers

Supplier	Eucalyptus species they grow and size of container they're sold in	Minimum order	Price	Lead tim for orde
Eucalyptus Tree Farms 19939 Elfin Forest Rd. Escondido, Calif. 92025 (714) 744-6341	Some 16 different species, including *E. camaldulensis, grandis, gunnii, rudis, saligna,* and *trabuti*—sold in 2-inch pots	$25	18 to 35 cents each	Cash-and-ca for 1,000 t or less; 1 months fo larger orde
Eucalyptus Unlimited Box 658 Vista, Calif. 92083 (714) 726-8024	About 200 different species available, sold in foam plastic containers with 128 openings shaped like inverted pyramids, each 1½ inches square, 5 inches deep	500 trees	32 to 38 cents each	2½ month
Greenworld Nursery 3030 S. 35th Ave. Phoenix, Ariz. 85401 (602) 272-1939	*E. leucoxylon, microtheca, polyanthemos, rostrata, rudis, sideroxylon, viridis*—grown in 2-inch-square plastic pots	50 trees	50 cents each	2 months
International Tree Crops Box 888 Winters, Calif. 95694 (916) 795-2440	*E. albens, camaldulensis, dalrympleana, globulus, melliodora, microtheca, johnstonii, robusta, saligna,* and *tereticornis.* Also poplars and black locust for snow areas. Sold in 2- by 2- by 7-inch cardboard bottomless boxes	10 trees	45 to 75 cents each	Depends o availabilit
Nelson's Pine Patch 4301 Lynnwood Dr. Chula Vista, Calif. 92010 (714) 422-2400	Eleven different species, sold in open-ended plastic containers measuring 2½ inches square, 8 inches high	12 trees	$2.45 each	3 to 6 months
Quast Nursery Box 14 Point Reyes, Calif. 94956 (415) 663-1583	Write or call nursery for species available; seedlings are sold in 2½-inch-diameter peat pots	1,000 trees	30 cents each and up	6 months
S and S Nursery Box 1307 Watsonville, Calif. 95077 (408) 722-8113	Seed for about 30 species is in stock. Trees are sold in 2¼- or 2½-inch-square plastic containers	200 trees	25 to 35 cents each	3 months
Sunset Growers 2216 E. South St. Anaheim, Calif. 92806 (714) 774-1970	*E. camaldulensis, citriodora, microtheca, nicholii, polyanthemos, rudis,* and *sideroxylon*—sold in 2½-inch pots and 5-inch open-bottom tree pots, depending on seedling size	50 per variety; 500 total	28 cents each	3 to 6 months
Trailer Terrace Nursery 19445 Pesante Rd. Salinas, Calif. 93907 (408) 663-4299	About 100 different species, sold in 4-inch-square plastic liners	One tree	75 cents each	4 months' lead time fo large order
Treeland Farms 23475 Long Valley Rd. Woodland Hills, Calif. 91367 (213) 883-1222	Nineteen species, sold in 2½-inch plastic pots	3,000 trees	30 to 38 cents each	6 months
Western Tree Nursery, Inc. 3280 Hecker Pass Hwy. Gilroy, Calif. 95020 (408) 842-6800	*E. baueriana, camaldulensis, cinerea, ficifolia, globulus* 'Compacta', *leucoxylon, melliodora, nicholii, polyanthemos, rudis, sideoxylon, viminalis*—sold in 2½-inch plastic pots	$50	55 cents each	4 months
Wilson and FitzPatrick Box 217 Walnut, Calif. 91789 (714) 598-5812	*E. camaldulensis, globulus, grandis, robusta,* and *saligna*—sold in 2½-inch-square plastic pots, 3¼ inches high	500 trees	50 cents each	4 to 6 months
Amfac Garden Perry's (wholesale) 19362 Walnut Dr. Rowland Heights, Calif. 91748 Order through local nursery	*E. citriodora, globulus, polyanthemos, rostrata, rudis,* and *viminalis*—sold in plastic flats of 100 plants each Flats measure 18 by 18 inches	50 flats	$12 per flat (plus markup)	1½ to 2 months
Olle Olsson Nursery (wholesale) 2154 Peck Rd. Monrovia, Calif. 91016 (213) 357-1181 Order through local nursery	*E. cinerea, citriodora, ficifolia, globulus* 'Compacta', *lehmannii, maculata, nicholii, polyanthemos, pulverulenta, rostrata, rudis, sideroxylon,* and *viminalis*—sold in 2¼- or 2½-inch pots	50 trees of one kind	45 to 60 cents each (plus markup)	Depends on availability

easier to transplant than large ones.

One disadvantage: small trees quickly outgrow their containers, and nurseries can't keep them very long before they must be sold and planted.

Because small eucalypts have such a short shelf life, they are usually grown on contract for planting at a predetermined date. The chart herewith lists growers of eucalypts in small containers, the species that they are usually able to supply, and the minimum order. The lead time is the grower's guess the time it will take to produce an order of trees. You sho be ready to plant as soon as you receive your trees. Th prices were accurate at our press time in March.

If you know of other nurseries growing small trees for larg scale plantings such as fuelwood groves, please send th names to the Fuelwood Editor, *Sunset Magazine,* Men Park, Calif. 94025.

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SUN 5-81

DAVID STUBBS

Cymbidiums with maidenhair ferns *are one arrangement for sale at Edgewood garden fair*

Many plant sales this month

At lower elevations, the gardening season is already well advanced, but it's just peaking in mountain and intermountain regions. Plant sale activity has dropped off from last month, but at events listed here you still can pick up bargains.

NORTHERN CALIFORNIA

Berkeley. May 9. The Friends of the UC Botanical Garden will hold their annual plant sale at the Lawrence Hall of Science Plaza, Centennial Drive, from 9 to 3. From 9 to 10:30, the sale is restricted to members of the Friends; after that hour, sale is open to the public. Those interested may join the Friends at sale time; memberships cost $10 ($5 for students and seniors, $15 for families).

Many of the plants for sale have been propagated from the huge collection of the garden or grown from seed or plant material collected by its botanists. Berkeley's mild climate enables many plants from subtropical and tropical regions to grow. This year, for instance, there is a fine selection of species fuchsias from South America.

The garden's collection of cactus and succulents is especially large. Look also for ferns, orchids, California native perennials and rock garden plants.

Saratoga. May 9. The Foothill Men's Garden Club will hold its annual plant sale in the Saratoga Village Shopping Center, Big Basin Way and Saratoga-Los Gatos Road from 9 to 4:30. Members have propagated and will offer dish gardens, gardens-on-the-rocks, f hanging baskets, marguerites and flowering plants, succulents, and tables. Admission is free.

San Francisco. May 13. In the Ha Flowers in Golden Gate Park, the A iary of Edgewood will sponsor the Edgewood Garden Fair. From 10 you can choose among potted plant cluding begonias, cyclamen, fuc gloxinias, hydrangeas, impatiens, roses. Floral arrangements for sale ture spring flowers—azalea, lilac, p and rose, along with many others.

Demonstrations of gardening, fl arranging, and cooking will be giv

A country kitchen will sell chu pickles, preserves, mustard, and he wine vinegars—all prepared by men of the sponsoring group.

The Coffee House will serve cheese, tries, coffee, tea, and wine. Lunche also available by reservation; call Michael Hooker at (415) 386-2922.

The Hall of Flowers is at Ninth Av and Lincoln Way. Garden fair admi is $1.50. (A preview party for spo only will be held May 12 from 5:30 admission is by invitation.) Proceed used to support the programs of E wood Children's Center.

Kentfield. May 16. The Marin Ch of the California Native Plant So will hold its sixth annual plant sale i atrium of the Science Building o College of Marin on College Avenu addition, there will be educationa hibits, lectures (with slides) on the u native plants in the garden, and Ca nia wildflower posters for sale. Fre

Walnut Creek. May 16. The Nort California Chrysanthemum Society hold its annual sale of young chr themums from 9 to noon on the pa lot of the United California Bank, N. Main Street. Free.

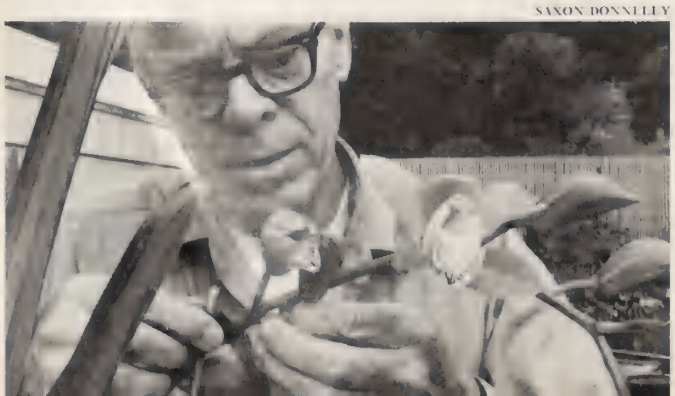
San Rafael. May 23. The Chrysa mum Society of Marin will hold it nual spring sale at the Montecito S ping Center, in front of the Crocker tional Bank, 409 Third Street. Hour 9 to 2. Free. A complete selectio chrysanthemums will be offered.

COLORADO

Denver. May 8 and 9. The Denver tanic Garden will sponsor its an plant sale at the Botanic Garden, at around 1005 York Street, between and 5:30. Plants available include nuals, bonsai, herbs, perennials, and etables. For information, write the D ver Botanic Gardens, 900 York St., D ver 80206; or call (303) 575-2547. F

Denver. May 30, 31. The American Society will hold a show and sale a Denver Botanic Gardens. Hours are 5 Saturday, 9:30 to 5 Sunday. Free.

SAXON DONNELLY



Volunteer *at UC Botanical Garden stakes orchid for plant sale, May 9 this year*

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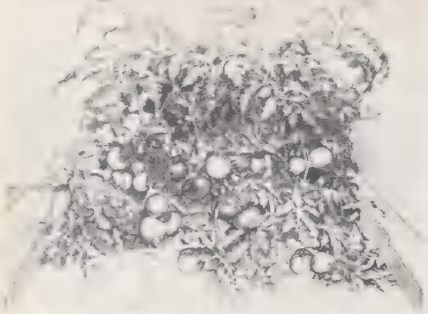

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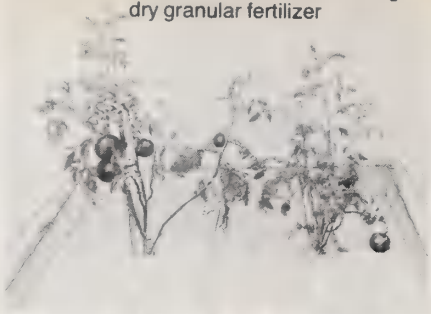

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We've compiled a sampling of to operated by travel services, hotels, a other groups; all will send informat brochures. Book as early as possib however, even in midsummer we fou vacancies. When you write overseas, e close an international reply coupon av able from the post office.

Some tours are geared to the seas Some feature a well-known garden p sonality. Others have garden histo classes as well as visits.

One publication, *Historic Houses, Cast & Gardens in Great Britain & Irela* (ABC Historic Publications, London, u dated yearly; $4.75) describes hundre of properties, helping you know whi spots would interest you most. If y can't find a copy locally, send $5.75 British Travel Bookshop Ltd., 680 Fif Ave., New York 10019.

Travel services

Hanson Travel Service, Woodland Rd., Huddersfield, England. Eight garden weekends with Prof. Alan Gemmell and expert guests include ones in Yorkshire (June), Shropshire (August), Lake District (September), south of England (October).

The Holiday Fellowship Limited, 142-144 Great North Way, London NW4. Week-long holidays with expert guide-lecturers include garden visits, evening discussions, and slide shows. Trips, held from late May through August, start in Wales, Stratford-upon-Avon, Ashdown Forest, Windsor, Lyme Regis, and other locations. Two courses concentrate on garden history.

R.V.S. Enterprises, Hilton House, Norwoo Lane, Meopham, Gravesend, Kent, Englan Spring visits to gardens and houses of Yorkshire, the Lake District, and Wye Valley include some speakers as well as accompanying hostess. R.V.S. also runs weekend trips.

Spring Garden Holidays in Cornwall, Tregarne, 13 Melvill Rd., Falmouth, Cornwall, England. One-week spring holidays visit growers and famous houses and gardens; local gardening personalities give evening slide shows and talks. Two five-day courses (September 28 to October 2 October 5 to 10) for flower arrangers go to gardens, markets, and demonstrations.

Swan Hellenic Ltd., Esplanade Tours, 38 Newbury St., Boston, Mass. 02116. Four

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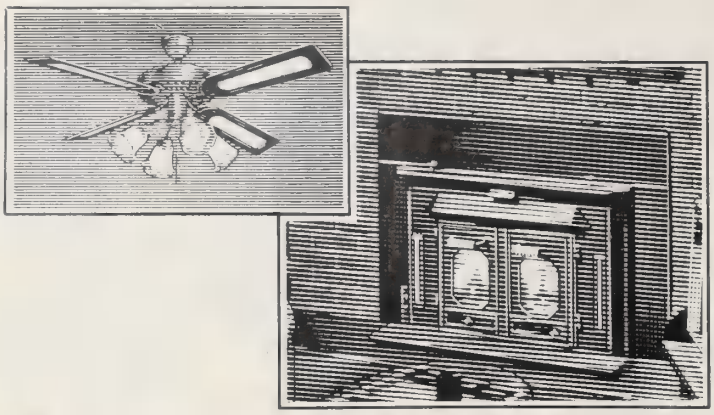

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11-day tours of great houses and gardens of England and Wales depart from London on May 19, June 16, July 21, and September 15; gardens visited include Blickling Hall, Haddon Hall, Chatsworth House, Lyme Hall, Tatton Park, Erddig, Corsham Court, and Stourhead. Three 9-day tours of Scottish castles, houses, and gardens depart June 8, August 3, and September 7; places with gardens include Melrose, Inveresk, Dirleton Castle, Cawdor Castle, Pitmedden Gardens, Crathes Castle, Falkland Palace. Guest lecturers accompany all tours.

Garden courses and seminars

Draper's Field Centre, Betws-y-coed, Gwynedd, Wales. Two of the center's natural history courses deal with gardening. Wild Gardening (May 6 to 13) covers spring planting and visits Bodnant and nearby cottage and organic gardens. The Wild Garden in Autumn (September 30 to October 7) treats winemaking, harvesting, and preserving, with visits to gardens, lectures, discussions, and garden work.

Isis Seminar, Coombe, Gracious St., Selborne, Alton, Hants, England. There are two tours: spring gardens in Cornwall (April 27 to May 1) and Scottish gardens (June 4 to 9). Seminars based at Oxford colleges offer lectures and garden visits: History of Gardens (September 7 to 12), and Gardens: Victorian to Modern (September 21 to 26).

Hotels offering garden holidays

Coombe Cross Hotel, Bovey Tracey, Newton Abbot, Devon, England. Hotel guests take conducted week-long trips (March through July, September and October) to gardens in Devon and Cornwall, and Isles of Scilly in spring. Different tours focus on spring gardens, cottage gardens, roses and herbaceous gardens, historic gardens, autumn color.

The Imperial, Torquay, Devon, England. Garden lovers' weekends (July 10 to 13, September 14 to 18) feature talks by gardening expert Percy Thrower or Bob Price and Rosemary Jenkins, designer of floral arrangements, as well as visits to gardens in Devon.

The Island Hotel, Tresco, Isles of Scilly, Cornwall, England. Week-long holidays for gardeners in March and September 22 and 29. They include lectures and demonstrations as well as a slide show, guided tours of Tresco Abbey and its gardens, and wildlife and wildflower walks.

By bus or boat

Epsom Coaches, Blenheim Rd., Longmead Estate, Epsom, Surrey, England. Three-day tours of stately homes and gardens depart April 24 and October 6; visits include Chatsworth House, Harrogate, and Beningborough Hall. Eight-day trips to Isles of Scilly depart May 9 and September 19.

St. Just Marine Charters Ltd., Lochavich, Taynuilt, Argyll, Scotland. Cruises on 12-passenger motor yacht visit the Hebrides and west coast of Scotland; trips include southern gardens (May 9 to 15), gardens and islands by land and sea (May 16 to 23), and Gigha and other southern isles (August 29 to September 4).

Scottish Omnibuses Ltd., Holiday Coach Tours, St. Andrew Square Bus Station, Edinburgh. Some Highland tours (April through September) visit the great subtropical garden of Inverewe. Numerous day and afternoon tours from Edinburgh include ones to great houses, gardens, and Border abbeys.

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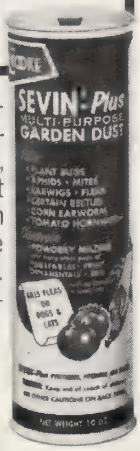

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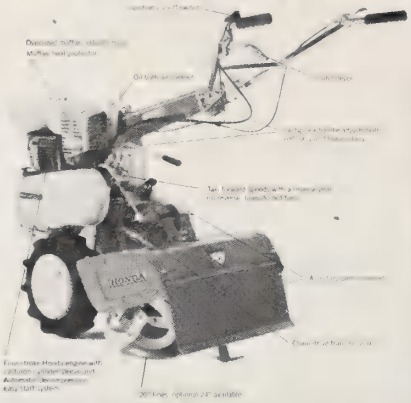

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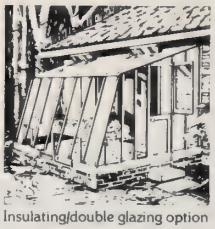

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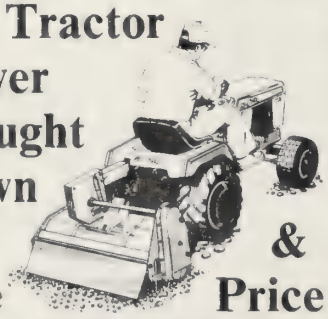

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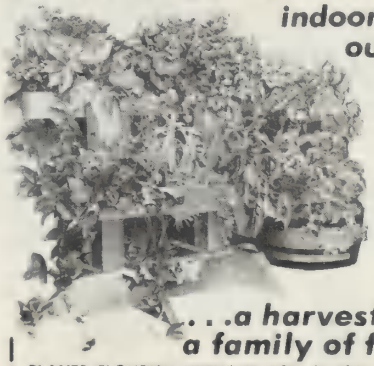

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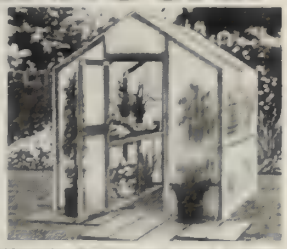

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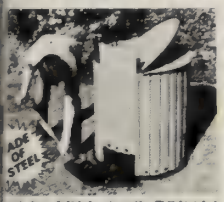

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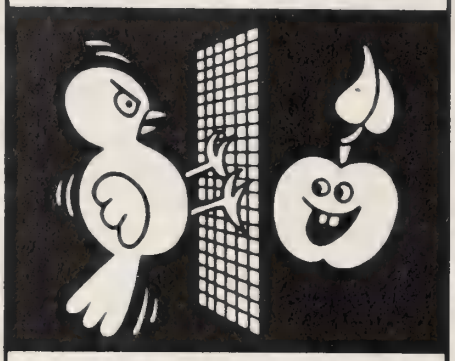

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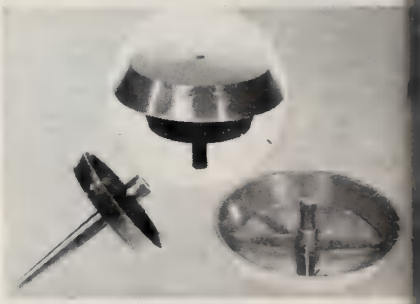

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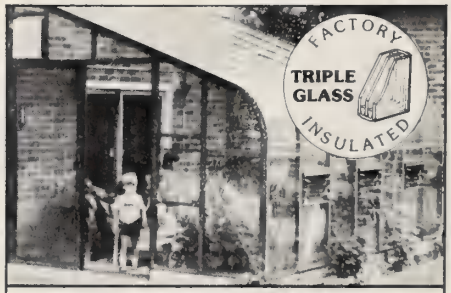

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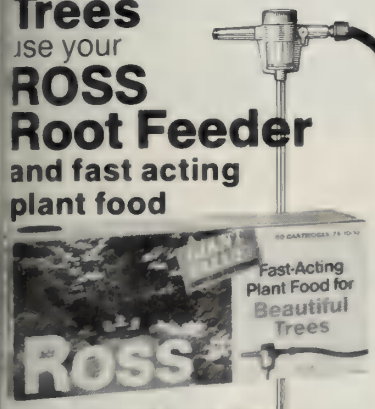

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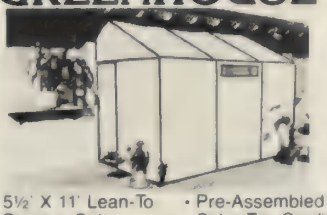

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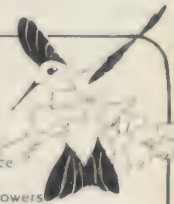

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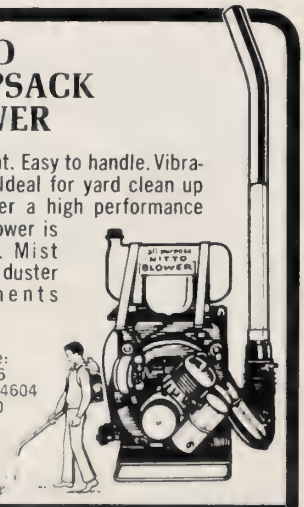

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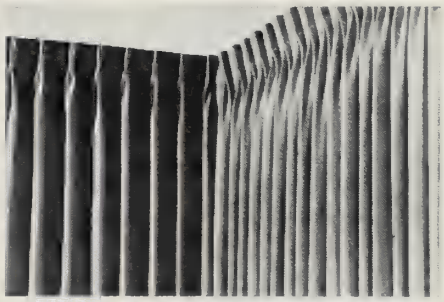

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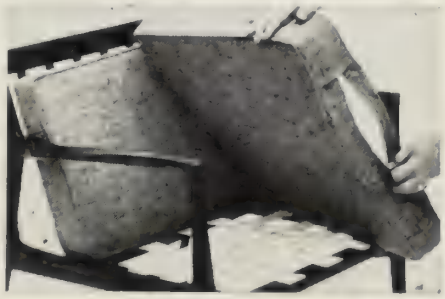

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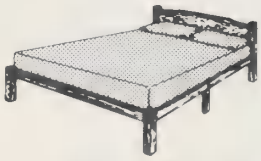

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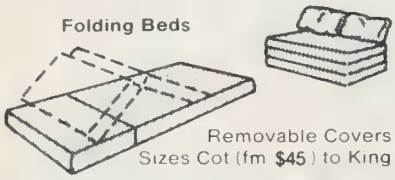

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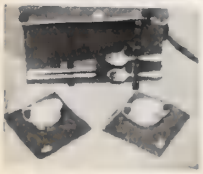

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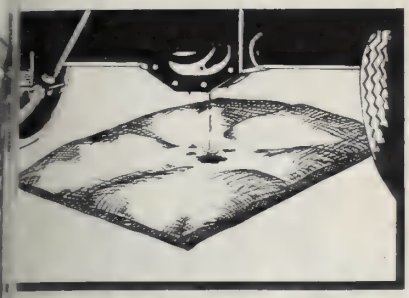

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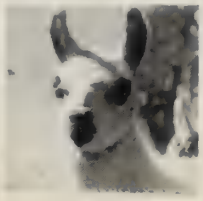

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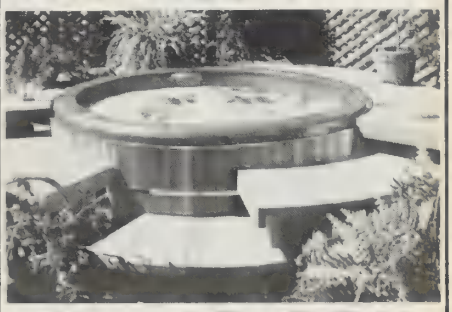

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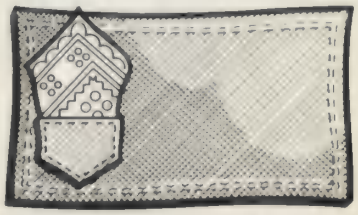

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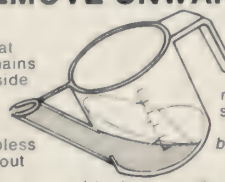

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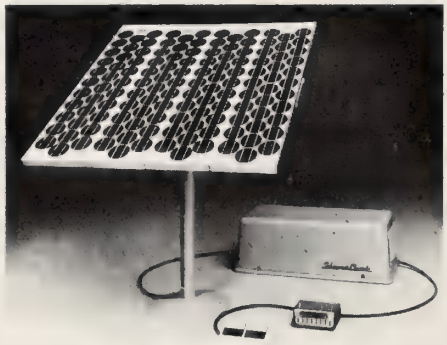

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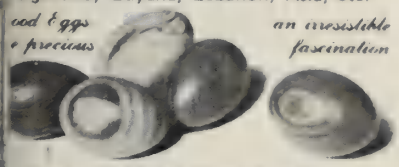

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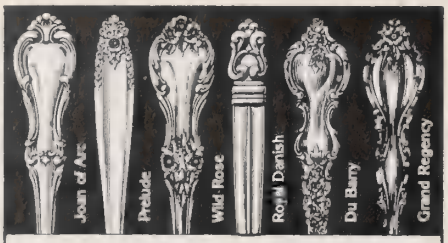

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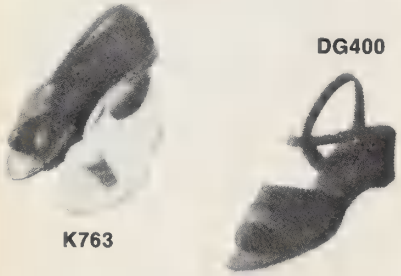

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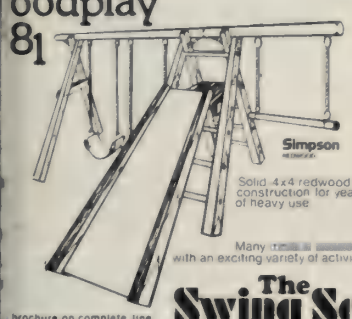

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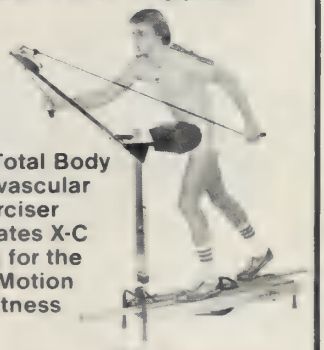

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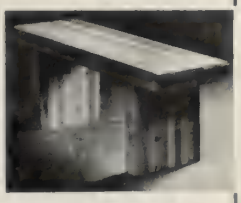

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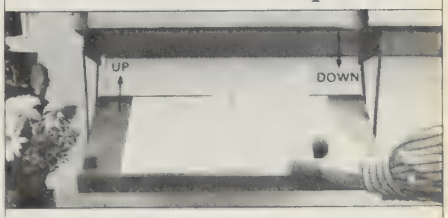

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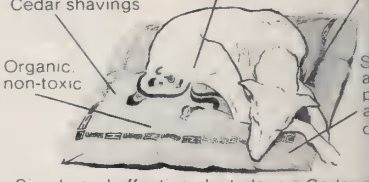

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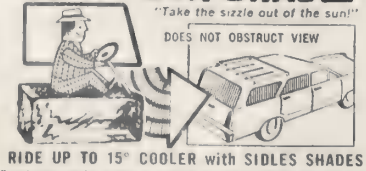

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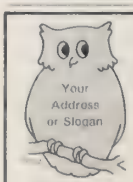

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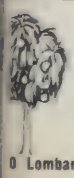

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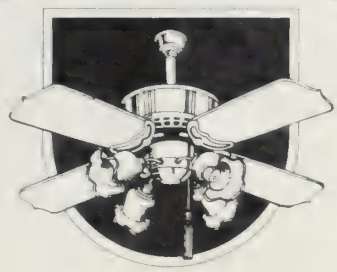

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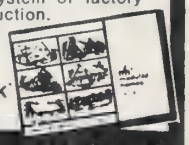

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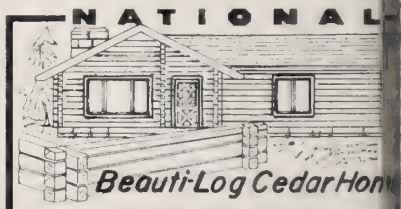

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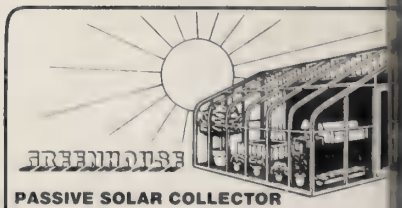

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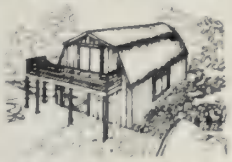

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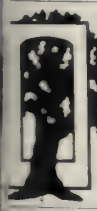

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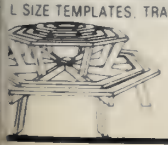

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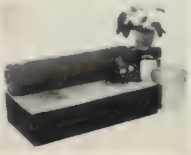

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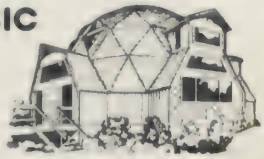

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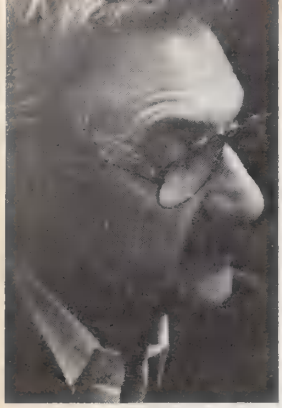

Frank Gehry

Angela Denadjieva

Wendell Lovett

Esther McCoy

Rick Morrall

Stanley Tigerman

Susan Bragstad

A.I.A.-*Sunset*, again in 1981

The uncertain future of Western housing in the '80s was discus last month's *Letter from Sunset*. Houses are the topic here aga cause next month the architects, designers, and writers pictured will come together at *Sunset's* Menlo Park headquarters to co outstanding house designs.

These seven women and men form the jury for the 13th biennial ern Home Awards program, cosponsored—since 1957—by the A can Institute of Architects and this magazine. The program is o registered architects working in the West. (Homeowners and p sional builders can also enter, with approval of their architects.)

In these times of high building costs, high mortgage rates, and demand, is judging the design of a house even relevant? Absolute

Reducing building costs and saving energy demand good design; s living comfortably in smaller houses or on smaller lots. Older h can find new vitality when remodeled using good design. In this winners, including remodels, we should find some answers for the ing challenges of the 1980s. We will share them with you in *Sunsets*, beginning this October.

Beyond practical aspects of shelter, there is the elusive but real va pleasing home surroundings, particularly in a fast-paced world signer Angela Denadjieva once commented, "For many people, a space to live in is as important to health as food and drink."

What makes good design in architecture?

There is no single answer, but this year's jury represents a health versity of views. As in the last two programs, the jurors will be ac by a nonvoting energy consultant.

Introducing the 1981-82 Western Home Awards jury:

Santa Monica architect Frank Gehry has pioneered using conven industrial materials in unconventional ways. His works includ Concord, California, Pavilion, the new Santa Monica Place sho center, and painter Sam Davis's studio in Malibu, for which he w special AIA-*Sunset* award in 1975.

Urban and landscape designer Angela Denadjieva returns for her se stint as a juror. Bulgarian-born and Paris-trained, she has won aw for the 1976 Seattle Freeway Park and is currently involved in signing the Santa Cruz, California, riverfront.

When not teaching at the University of Washington, Wendell Lo FAIA, designs building products and furniture as well as houses has received four AIA-*Sunset* awards.

Esther McCoy is Southern California's long-time ongoing architec critic. She has written five books, contributed to many more, and tures frequently at schools of architecture.

Rick Morrall, Building Editor of *Sunset*, has a background in art design and in 10 years of scouting architects' work for the magazine "visited more good houses than most architects would be able to."

From Chicago, Stanley Tigerman, FAIA, is a widely published a tectural critic, academic, organizer of numerous exhibitions, and a and prolific building designer.

Sausalito architect Susan Bragstad has won two AIA-*Sunset* aw Her work includes Victorian restoration, remodels, and new houses

Applications and information on the AIA-*Sunset* awards program been sent to nearly 10,000 registered architects in the West. App tions must be at *Sunset* by mid-May; completed entries must be ma by June 5. Send applications to the AIA-*Sunset* Western Home Aw Committee, Box 2345, Menlo Park, Calif. 94025.

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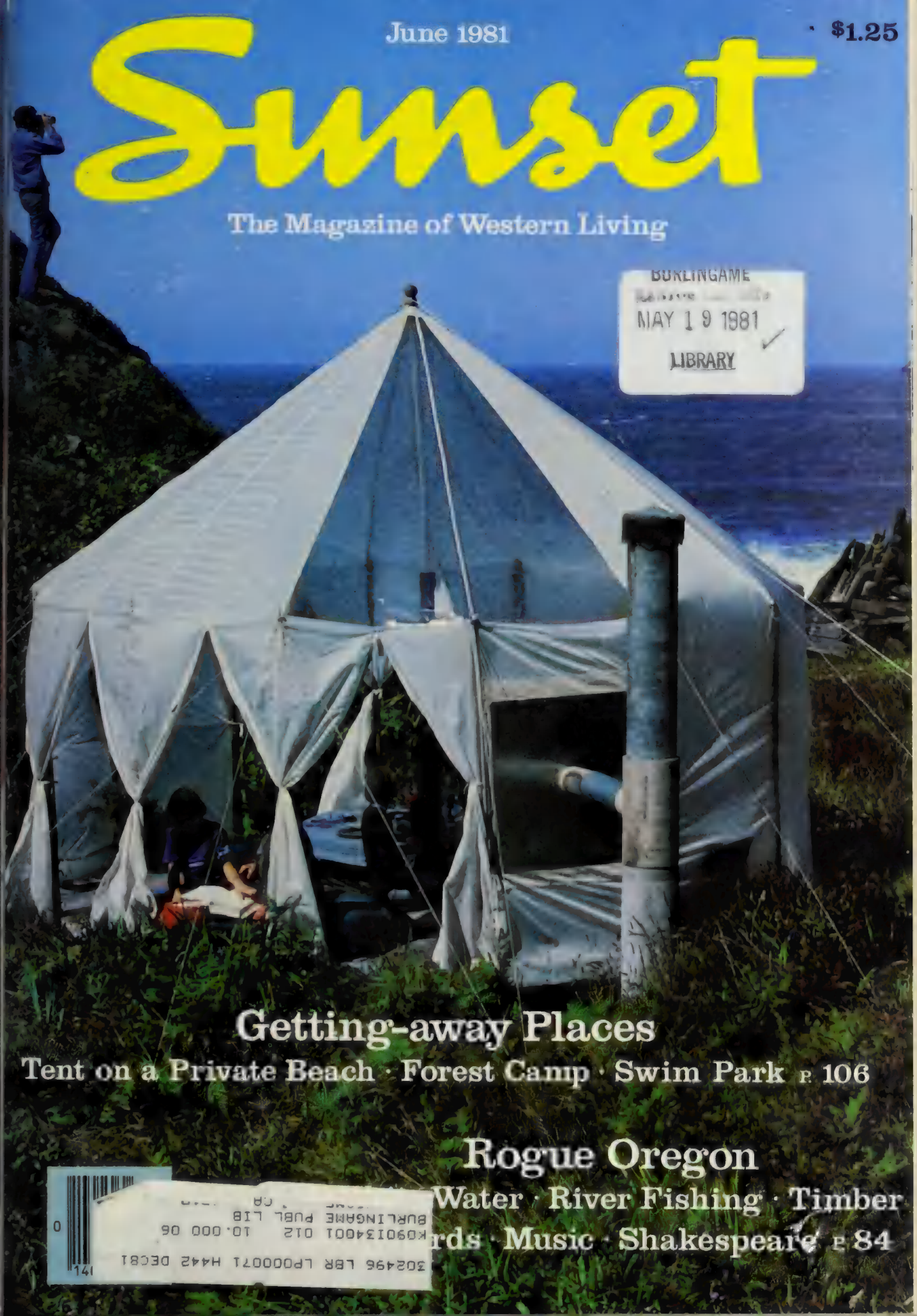

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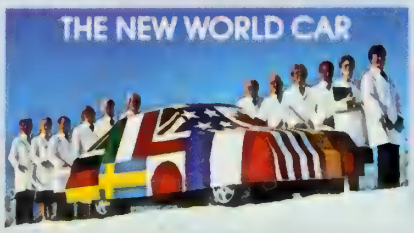

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The Cover Story

Raised on a deck on privately owned vacation property, shimmery white nylon tent provides a shady oasis under noonday sun. It's one of three simple vacation shelters featured in the article beginning on page 106. Cover photograph by Rémo Pratini

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Money Saving Coupon

June travel . . . in and beyond the West

NORMAN A. PLATE

Pâté anyone? *Porcine sample is one of eight kinds at Pig-by-the-Tail Charcuterie*

Corner turret *marks the Produce Center, heart of Berkeley's gourmet neighborhood*

Japanese art *of making sushi is on view at the Berkeley Fish Kitchen*

You can say "cheese" *more than 300 ways at the Cheese Board*

A cornucopia of picnic foods in Berkeley

The perfect June picnic might well begin with a shopping trip to Shattuck Avenue near Vine Street in Berkeley—one of the best one-stop concentrations of specialty food stores in the Bay Area. Six shops offer everything from chocolate truffles to Belgian endive, homemade sausage to Peking duck, fresh sushi to wheels of Brie. Here's a chronological list.

First came the *Cheese Board*, a collective founded in 1967 and now owned and run by its 15 workers. The cases contain more than 300 kinds of cheese from all over the world. You are urged to sample. Try cheeses made from cow, goat, sheep, or even water-buffalo milk. The Cheese Board makes its own onion-cheese bread, and crispy warm baguettes are always on hand

The Produce Center arrived in 1971, offering a wide variety of fruits and vegetables trucked in from farms in California's Central Valley. Displays include orderly ranks of plump strawberries, crisp chard, and fragrant honeydews.

In the mid-'70s, three other shops opened. Victoria Wise, a chef at the nearby restaurant Chez Panisse, started *Pig-by-the-Tail Charcuterie*. Here you'll find eight kinds of pâté, Peking duck, and summer specialties such as Chinese chicken salad and fresh squid salad. All items can be ordered in advance. Sampling is encouraged.

The *Berkeley Fish Market* and the *Berkeley Fish Kitchen* share space next to the Cheese Board. Berkeley Fish carries about 30 types of salt-water fish. The Fish Kitchen specializes in take-

MICHAEL THOMPSON

This one didn't bite *for our writer, but the photographer caught it—in the Rogue and then in Bushnell's hands*

Getting skunked on the Rogue

Many anglers are lured to Oregon's Rogue River to try for big chinook salmon. So was *Sunset* assistant editor Dick Bushnell. With the best advice of local driftboat guides and the camera of photographer Michael Thompson trained on him, he fished the river predawn to dusk for two days—and was skunked. (Thompson caught a whopper.)

But back ashore, the pastoral charms of the Rogue Valley and its lively calendar of activities enticed him to visit three more times.

Getting to know the valley, he met a fascinating assortment of people: a Shakespearean actor, loggers, a miller, musicians, pie makers, pear growers, a vintner, a woman sawyer. With help from the report on page 84, you can meet some of them yourself. □

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home Japanese dishes, such as sushi.

Cocolat opened in 1976. This French pastry and chocolate specialty shop was founded by Alice Medrich, who got her start by selling chocolate truffles at Pig-by-the-Tail. She now has three stores, but this one remains her headquarters. You can buy cake by the slice, and fresh fruit tarts are a summer favorite.

Finally, in 1979, the *North Berkeley Wine Company* appeared. Currently it stocks wines from about a hundred of California's smaller wineries.

From Interstate 80, drive east on University Avenue to Shattuck Avenue, then go left to Vine Street. Parking is limited and shops often draw crowds—particularly on weekends.

The Cheese Board, 1504 Shattuck; (415) 549-3183; 10 to 6 Tuesday through Saturday.

The Produce Center, 1500 Shattuck; 848-8100; 9 to 6:30 Monday through Saturday.

Pig-by-the-Tail Charcuterie, 1512 Shattuck; 843-4004; 11:30 to 5:30 Monday, 10 to 6 Tuesday through Friday, 10 to 5:30 Saturday.

Berkeley Fish Market, 1504 Shattuck; 845-7166; 9 to 6:30 Monday through Saturday.

Berkeley Fish Kitchen, 1504 Shattuck; 845-7166; 11 to 6 Monday through Saturday.

North Berkeley Wine Company, 1505 Shattuck; 848-8910; 10 to 8 daily.

Cocolat, 1481 Shattuck; 843-3265; 10 to 6 Tuesday through Saturday.

A marsh comeback in Hayward

Once a salt marsh is drained for development, it's about as likely to come back to life as a frozen woolly mammoth. But a welcome exception to the rule can be seen in Hayward, where the East Bay Regional Park District has completed one of the biggest salt-marsh restoration projects on the West Coast. Birds are already returning, and now trails in Hayward Regional Shoreline Park are open.

Once diked off to create salt evaporation ponds, the 220-acre marsh was revived when bay waters were allowed back in. Replanted salt grass, cord grass, and pickleweed have taken hold, luring birds back to the area.

You'll see gulls, willets, egrets, and an occasional brown pelican here. The best time to spot them is 2 hours before or after the day's high tide (check tide tables). There are some 2 miles of trails along the marsh edge and boardwalks connecting the two main lagoons.

The park is open free from 8 to 4 daily. It's at the end of W. Winton Avenue in Hayward; from State 17, go 4 miles west on Winton.

A new look at Monterey's heritage

Hard by Monterey's busy waterfront are several sturdy adobes where much of

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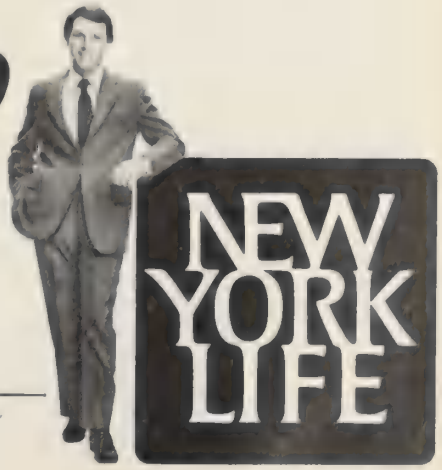

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early California's history was made. Many of the dozen buildings preserved here at Monterey State Historic Park have long been open to the public, including the Custom House, oldest government structure on the West Coast, and the Robert Louis Stevenson home.

(The park is open daily from 9 to 5. You can park at the Custom House lot at the end of Tyler Street. Admission: 50 cents.)

Now you can also visit the graceful Casa Soberanes at 336 Pacific Street. The "House of the Blue Gate," as it is locally known, is typical of the Monterey style of architecture so prevalent here.

Nearby, at Munras Avenue and Polk Street, the huge Cooper-Molera adobe is under restoration. While work progresses, you can see artifacts uncovered in the process. During an exhibit from June 2 through 22, some 200 recovered items dating from 1780 to 1900 will be displayed at the Monterey Public Library at 625 Pacific Street. Nine types of pottery on view (from Chinese porcelain to hand-painted earthenware) reflect the diverse cultures of Monterey's early days. Library hours are 9 to 6 weekdays, 9 to 5 Saturday, 1 to 5 Sunday.

San Francisco remembers Maynard Dixon . . . starting June 18

Maynard Dixon spent most of his lifetime (1875-1946) gathering images of the Old West, then capturing them in paint and poetry. His goal, as he explained in 1921, was to portray "Western people seen amid the grandeur, sternness, and loneliness of their country."

NORMAN A. PLATE

Southwest Indians *are central theme of Dixon exhibit. Painting at right was adapted for cover of February 1903 Sunset*

More than a hundred of Dixon's paintings, drawings, prints, and murals have been collected for an exhibition that opens June 18 at the California Academy of Sciences in Golden Gate Park. Titled "Maynard Dixon: Images of the Native American," the show focuses on Indian scenes painted between 1900 and 1939. A catalog includes more than 40 color plates as well as black-and-white reproductions and several essays.

The exhibit continues through October 18. Museum admission is $1, 50 cents for seniors and students, 25 cents for children 6 to 12; free first Wednesday of each month. Hours are 10 to 5 daily (to 8 from July 4 to Labor Day). For more details, call (415) 221-5100. □

For travel planners, a June 1981 check list

Budget trips to China. You get visa arrangements, nonstop San Francisco-to-Shanghai flight on CAAC Airlines of the People's Republic of China, airport transfers, 12 nights in a first-class Shanghai hotel, and American breakfasts, all for $1,299 per person, double occupancy. Eat à la carte in hotel, with coupons in a restaurant, or at a noodle stand. You're free to explore Shanghai or take tours with a Chinese guide to other cities (for example, 3 days in Peking, including air from Shanghai, hotels, meals, sightseeing: $275). Write to Interworld Tours, 310 Washington St., Marina del Rey, Calif. 90291; call (213) 822-4490 or (415) 668-4912.

East Coast air and sea cruises. After three days of sightseeing in Washington, D.C., you fly to New York for a 14-day cruise on Norwegian-registered, 500-passenger *Royal Viking Sky*. Go up the St. Lawrence to Montreal, into Saguenay fjord, past Newfoundland. Price is $3,694 to $4,422, including Washington hotel, land arrangements, full board on ship, and air fare from San Francisco or Los Angeles (air allowance from other cities is up to $660). Six departures May through August. A seventh tour, starting July 21, includes a 21-day cruise to Iceland for $5,043 to $6,156. See your travel agent about these Brendan tours.

Limnology in Montana. Persons over 16 can study the feeding of trout and related ecology in the Yellowstone Park area August 3 to 27. Cost is $680 from West Yellowstone Airport, including cabin, meals (share in cooking), four-day canoe trip. For more on this and 15 other expeditions to study archeology to zoology, here or abroad, write to the School for Field Studies, Box 171, Prudential Center, Boston, Mass. 02199.

Switzerland at a slow pace. Independent tours of 15 to 28 days, leaving any day of the week, offer four to seven nights at four- or five-star hotels in major cities. Swiss Holiday Pass permits unlimited first-class travel on trains, postal motor coaches, and lake steamers. A trip of 5 nights each in Zürich, Interlaken, and Montreux costs $1,188, including hotels, continental breakfasts, choice of hotel lunch or dinners, and the rail pass. Air fare additional. Write to Lazy Man Tours, 180 S. Lake Ave., #335, Pasadena 91101.

What a travel agent can do for you: provide information on tours; help you plan a trip; reserve space on air, rail, bus, and ship lines; make hotel, ranch, and resort reservations. Travel agents usually do all this without charge, but they do charge for "custom" tour service.

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Sunset School & Camp Directory

Camps

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Index of Directories

School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

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WESTERN GROCERY DIRECTORY
beginning on page 171

SHOPPING CENTER
beginning on page 252

Sunset School & Camp Directory

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Schools

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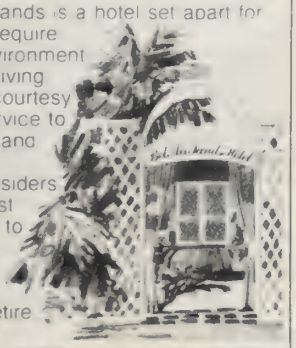

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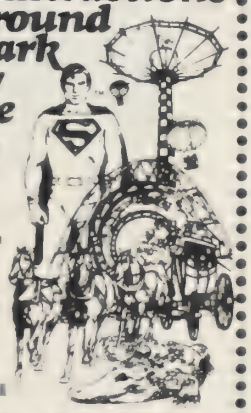

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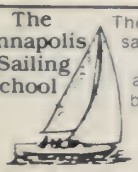

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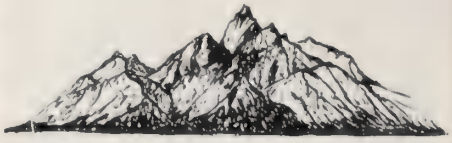

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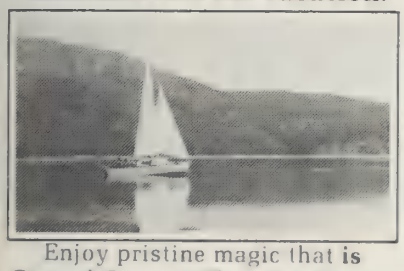

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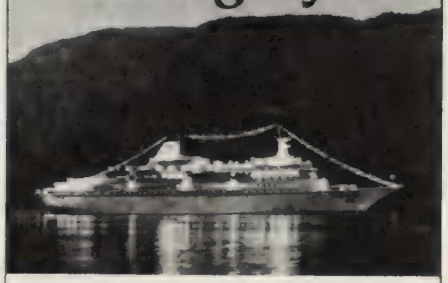

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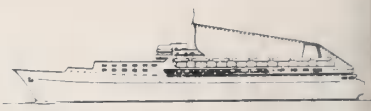

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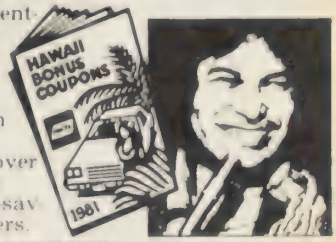

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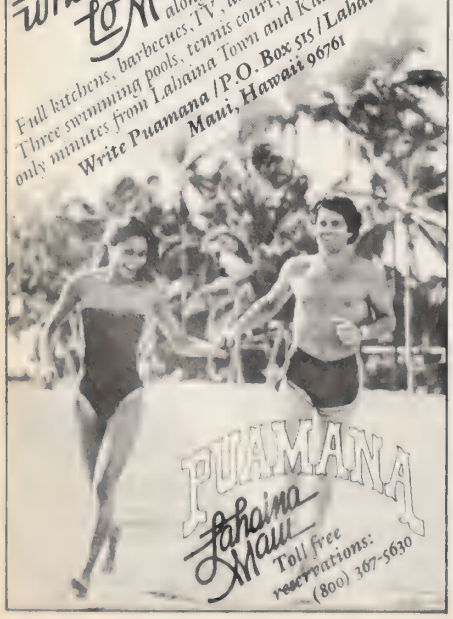

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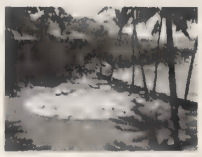

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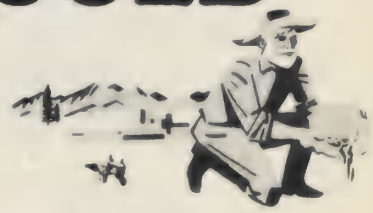

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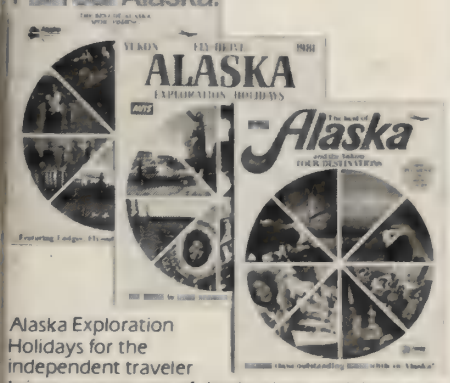

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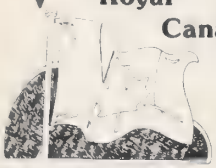

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GREGG MANC

Regal trio *parades before Hayward's palmy All Saints' church. This festa takes place June 21; it's one of 10 scheduled in Bay Area cities*

The Portuguese celebrate Queen Isabel's festa

Famine beset 13th-century Portuga when, in 1292, the hunger began to wan Queen Isabel celebrated a public Mass thanksgiving. At the end of the Mass, sh saw further answer to her prayer fo food: a fleet of ships sailing into Lisbo harbor, weighted down with loaves bread. Each year thereafter, Isabel re membered the miracle with a processio honoring the Holy Ghost. On the day the procession, the queen distribute meat and bread to all her subjects an allowed the poorest girl in the city t wear her crown.

A legend, perhaps. But history recorc that Queen Isabel was an unusually be nevolent monarch. And the festa (fest val) she began continues today—though strangely, not in Portugal but in th Azores and in Portuguese communitie in the United States.

Throughout northern California, Portu guese festas welcome visitors all summer and this year a special exhibit at th Oakland Museum can help explain wha you see when you attend one.

Usually sponsored by Portuguese fra

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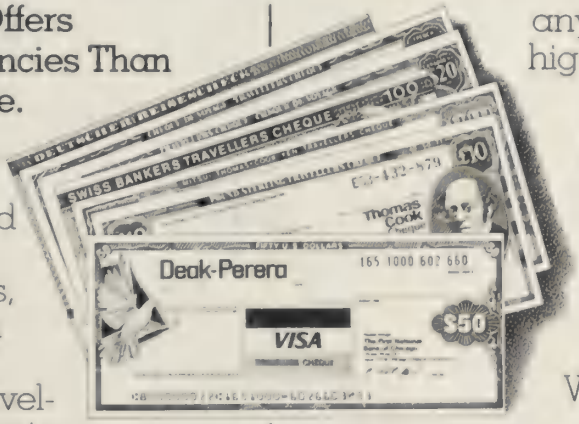

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Hmmm—interesting bouquet. Not sec. Gracious aftertaste. In my expert opinion I would say it was—cool!

Villa Banfi, U.S.A. Farmingdale, N.Y. © 1981

Riunite on ice...that's nice. America's best-loved imported wine. Soft and Light. Pure and Natural. Red, White and Rosé. Imported from Italy.

ternal organizations to honor the H Ghost or the organization's patron sa the festas are days-long affairs of ce monies, services, and banqueting. But high point of each is a Sunday par from the fraternal hall to church back. Banners poke the sky, bands so out Sousa marches (appropriately, John Philip was of Portuguese desce and girls pass around slices of sw bread with Isabel-like generosity.

Older girls chosen as queens by each ganization (there are nearly 50 in nor ern California, and a representative each attends almost every festa) gl down the street with impressive broca and velvet capes—handmade and of valued at more than $1,000—sweep regally behind them.

Afterwards comes food: a banquet *soupas* (bread and meat and grav which usually costs $1 or less. If th doesn't tempt, you'll find other iter linguisa sausage or *tremoços*—bea cooked in brine. Still later comes an au tion, where you can buy a loaf of t sweet bread you may have sampled the parade route.

Northern California festas, May 31 to October 4

Here is a representative selection, listi where and when the Sunday morni parade to church begins.

May 31: Hayward, First and C streets, at 9:30; Mountain View, 432 Stierlin Road, 9

June 7: San Leandro, Alvarado and Anton streets, 9:30; Sacramento, Eighth and U streets, 10. *June 14:* San Lorenzo, 16490 Kent Avenue, 9:30; Santa Clara, Lewis and Lafayette streets, 9. *June 21:* Hayward, First and C streets, 9:30. *June 28:* San Leandro, 1670 Orchard Avenue, 9; San Jose, 1401 E. Santa Clara Street, 9:30.

July 5: Santa Cruz, Cedar and Walnut streets, 10:45. *July 12:* Hayward, First and C streets, 9:30; Monterey, the Custom House Plaza, 10. *July 19:* Union City, 30846 Watkins Street, 9:30.
July 26: Newark, Thornton Avenue and Cherry Street, 9:30.

August 9: Tracy, Ninth and Windeler streets, 10. *September 13:* Gustine, 370 Linden Avenue, 10. *October 4:* Gilroy, Monterey and First streets.

Festa exhibit

To learn more about the tradition of th festa, visit the exhibit "Festas Açore anas," which runs through July 26 at th Oakland Museum. The exhibit contain costumes, banners, and musical instru ments important to the festas, and at tempts to show what place the celebra tions have in the life of California's Por tuguese. Hours are Tuesday through Sat urday 10 to 5, Sunday noon to 7. To ge there, take State Highway 17 to Sixth Street, then turn right on Oak Street and drive four blocks to the museum.

After July 26, the exhibit will move to Gustine in time for its festa; the location was not set at our press time. □

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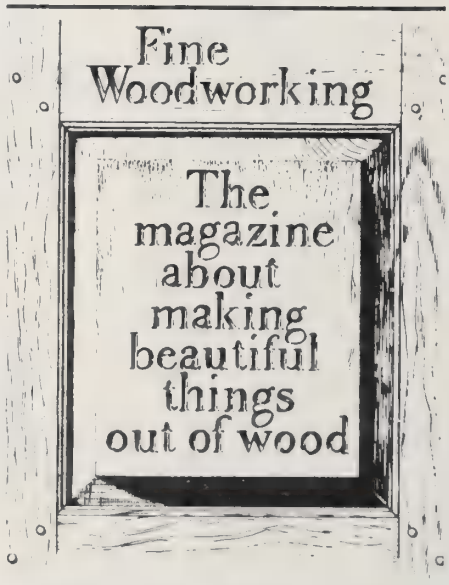

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Cutting travel costs often requires some sacrifice in convenience. Here's a way—if your plans are flexible—to drive long distances at relatively low cost.

Through an auto transport company whose business is to deliver privately owned cars over long distances, you can contract to drive someone else's car to your destination. After making the delivery, you can return as you choose by plane, bus, or train.

The experience is best for those who want to reach a destination swiftly. The contract requires you to take the most direct route, arriving within a specified period—so there's little opportunity for sightseeing.

It's best to reserve a car at least two weeks before your intended departure. Because of the volume (especially high during summer), some companies will not take telephone reservations without a deposit. You'll find listings in the yellow pages under the heading Automobile, Truck, & Driveaway Transporting Service. Also check the transportation column in newspaper classified sections.

After making a refundable deposit of $75 to $150, you pay only for your own food and accommodations, plus gas. Some companies even provide the first tankful.

At present gasoline prices, you can drive from San Francisco to New York for about $180. If gas costs are split with others, and food and accommodation expenses kept low, you can realize some real savings.

Some requirements, obligations

Each driver must be at least 21 years old and have a valid driver's license and good driving record. In most cases, personal references are required. The maximum number of drivers per car is usually three or four; each must fulfill the requirements.

You must deliver the car in good condition. Under Interstate Commerce Commission regulations, it can be driven no more than 400 miles per day (8 hours at 50 mph).

Cars are insured by their owners and covered by a secondary policy held by the company. While only cars in good condition are accepted for delivery, drivers should be prepared to pay up to $50 for emergency repairs. If the car needs more extensive repairs, the owner must be notified before work begins; all costs should be refunded by the owner. □

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Seven highways *link I-5 and U.S. 101 between Los Angeles and San Francisco. Map shows distances and light-traffic travel time*

MICHAEL SPECT

Heading toward *the Sierra Madre, two-lane State 166 crosses Cuyama River bridge*

Seven roads, languid to speedy, can cross you from I-5 to U.S. 101

"The cows may look up as you go by, but I wouldn't count on it," said one motorist, summing up the rural tranquility along California Highway 198.

This and six other east-west routes linking Interstate 5 and U.S. 101 offer relief from the high-speed monotony of the superhighways. Cattle graze upon rolling hills; rows of crops fan out in the valleys. In some spots, oil pumps work amid sagebrush: in others, you look out on recreational lakes and reservoirs.

On a journey between Los Angeles and San Francisco, a cross-route detour will add an hour or two, but it also provides a welcome change of pace. If you're crossing the state—from the Sierra to the central coast, for instance—one of these roads may turn out to be an unexpectedly pleasant alternative to the obvious routing.

Summer temperatures along all the highways (including I-5 and U.S. 101) can soar unpleasantly; take along beverages and be prepared for the heat.

Turnoffs to hidden campgrounds appear quite unexpectedly. Roadside towns—some with little more than a gas station and cafe—can often supply creature comforts. The roads, usually two-lane, are best driven during daylight hours; adequate evening accommodations may be difficult to find.

Beneath a major portion of the land lurks a subterranean serpent—the San Andreas Fault. Evidence of its activity (steep cliffs, ridges, and sunken earth) can be seen along many of the routes.

State 126 . . . roadside fruit stands, several camping spots

Extending from Castaic Junction to th beach in Ventura, State 126 looks out o the edge of Los Padres National Fore to the north and the Santa Clara Rive to the south. During heavy rains, flood ing can occur west of Fillmore. Cotton wood trees, saltbush, Indian tobacco, an buckwheat flourish along the river. Wal nut and orange groves fill your view a times; eucalyptus trees lining the high way serve as a windbreak for crops Fruit stands abound, and picnic area promise shady respite.

Val Verde County Park turnoff, 3 mile west of I-5, takes you 2½ miles nortl to a grassy picnic area among the oaks Several miles farther west, a side roa goes 5 miles north to Lake Piru, an ac tive fishing and water-skiing spot wit summer temperatures sometimes sizzlin over 100°. You can cool off in a desig nated swimming area and camp in one o the 300 sites shaded by oaks and olives.

Kenney Grove County Park near Fill more has stoves and tables for picnick ing as do Steckel County Park and Pine Grove Campground, both 4½ mile north of Santa Paula.

State 166 . . . crops and oil; a fast and smooth journey

From I-5, State 166 first passes agricultural land bearing melons, potatoes, cot ton, and sugar beets. For the next 20 miles, the land yields oil instead of crops, and the sights turn industrial—oil pumps

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In fact, with its optional diesel engine and 5-speed transmission, the VW Pickup gets an estimated 38 mpg, 51 est. highway. (Use "estimated mpg" for comparison. Your mileage may vary with speed, weather and trip length. Actual highway mileage will probably be less.)

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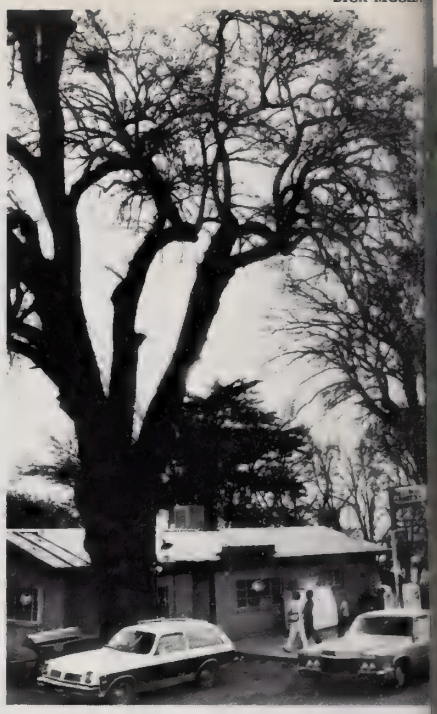

Priest Valley Station *on State 198 combines diner, market, and gas pumps*

and pipelines on both sides of the road. Slow trucks may impede your progress but since there's little other traffic, you can pass rather easily. Finally, the straight and smooth road winds into mountainous terrain with dramatic cliffs and rock formations.

State 166 skirts the southern edge of the Carrizo Plain, the most spectacular area of the San Andreas Fault. You cross the fault near the intersection of State 166 and Soda Lake Road. Only a violent up-thrust could have formed the steep ridges of Elkhorn Hills to the north.

Except for a 54-mile dry stretch between New Cuyama and U.S. 101, gas should be readily available along the route.

State 58 . . . ranchland and white oaks, a fishing and boating lake nearby; and every curve is followed by another

Relax. You're in for a leisurely meander across ranchland and the expansive grassy fields of the northern Carrizo Plain. Climbing the Temblor Range, you cross the San Andreas Fault near San Diego Creek. The highway is too narrow and twisty in places to be safe for trucks and cars with trailers.

Santa Margarita Lake, about 8 miles south of State 58 via Pozo Road, supplies drinking water to San Luis Obispo. Boating and fishing are permitted, but no swimming. For relief from the often scorching sun, there's a pool at lakeside. Entry costs $1.50 for vehicles, an additional $3 for boats (including launching). Shaded picnic tables and barbecues overlook the lake.

Just outside the lake entrance are two campgrounds. The western portion of

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State 58 has several campgrounds withi a few miles of the road.

State 46 and 41 . . . buffalo burgers, vineyards, and signs of temblor activity

Similar in many ways, these roads intei sect and become one for about 7 mile Both are bordered largely by ranchlan Fenced-in cattle, oak trees, and an oc casional vineyard add to the landscap Just west of Davis Road near Cholam the San Andreas Fault is visible as series of steep slopes.

About 2 miles west of I-5 on State 46 Woodward Street goes south 1 mile Lost Hills Fishing Access, where yo can drop a line into the California Aque duct. In Cholame, population 65, don be surprised to find buffalo burgers an steaks on the menu at Stella's Countr Kitchen. Just west of Whitley Gardens Estrella River Winery operates a tastin room from 10 to 4 daily. An observatio tower offers striking views of the Gavi lan Mountains to the north and the Sant Lucia Mountains to the West.

State 198 . . . cotton harvesting and a museum with buggies; side route to a national monument

This route—sometimes called the Sierra to-the-Sea Highway—runs through fla broad agricultural fields. Harvesting thi month includes cotton, barley, and to matoes. West of Coalinga, the roa winds through the Diablo Range, wher large ranches spread over the hillsides.

Just east of 198's junction with I-5 Harris Ranch operates a spacious restau rant and coffee shop. Specialties includ the ranch's own beef and baked goods.

At the Baker Museum in Coalinga, the large collection was pulled from loca attics; area residents have donated al most everything, from old branding irons to vintage typewriters and cameras. A huge model of Nipper, the fox terrier trademark of RCA, occupies a spot beside the horns of a "talking machine."

Thirteen miles west, Coalinga Mineral Springs Road takes you to a picnic area at the sight of the old springs, whose sulfur smell persists.

State 152 . . . from the nation's largest off-stream reservoir to fields of garlic

First to make a path through Pacheco Pass were Indians; they were followed by Spanish missionaries, gold miners, and overland stages. Now the highway is the primary route from Monterey Bay to the San Joaquin Valley. Traffic can be heavy at times, but frequent passing lanes alleviate slowdowns. More than a third of the route is four lanes wide.

At the San Luis Reservoir Recreation Area, 5 miles west of I-5, you can fish, swim, boat, picnic, bicycle, and camp. Films, slide shows, maps, and brochures, offered at the visitor center, describe the area and the dam. □

If it swims, roars, dives, slithers, flips, snarls or splashes, you'll find it in San Diego.

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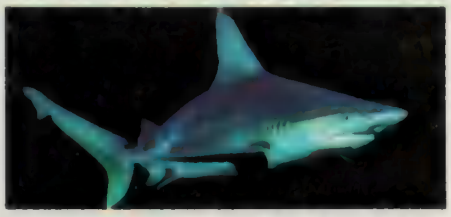

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THOMAS HOLDIM

Fiery chilies—*fresh and dried—find their way into most Thai dishes*

Weekend market in Bangkok

On a visit to Thailand, you can easil spend hours wandering through the pro fusion of consumer goods and foodstuf at Bangkok's weekend market. Her you'll get a close-up look at Thai life an a chance to capture the kaleidoscopi scenes on film, as well as opportunitie for bargain hunting.

Stalls are set up early Saturday mornin in the wide field at Sanam Luang acros from the Royal Hotel (between the Na tional Museum and Grand Palace). Pla a visit either Saturday or Sunday morn ing, when the temperatures are cool an food displays are at their best.

The market is a good place to introduc yourself to the colorful variety of Asia fruits: hairy red rambutan, purplis brown mangosteen, flesh-colored *sawo* green starfruit. (If you want to sample stick to fruits you can peel.) You'll als see dried meat and fish, live crab, shell fish, frogs, turtles, chickens, speckle eggs, vegetables, nuts, and beans.

Other sections display secondhand cloth ing (faded jeans and T-shirts), textiles household utensils and ironware, toys and school supplies, musical instruments woodcarvings, inexpensive jewelry, an basketware. A special area is set aside fo plants, flowers, and seeds. Pet fanciers will find it hard to resist the cats, dogs tropical fish, and cages of singing birds.

At shaded food stalls, you can treat yourself to snacks, cold drinks, freshly roasted cashews, or a hot Thai soup.

All prices are in bahts (20 bahts equa about $1); you're expected to bargain. I in doubt, check with U.S. customs about what purchases you can bring home. □

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Signature _____
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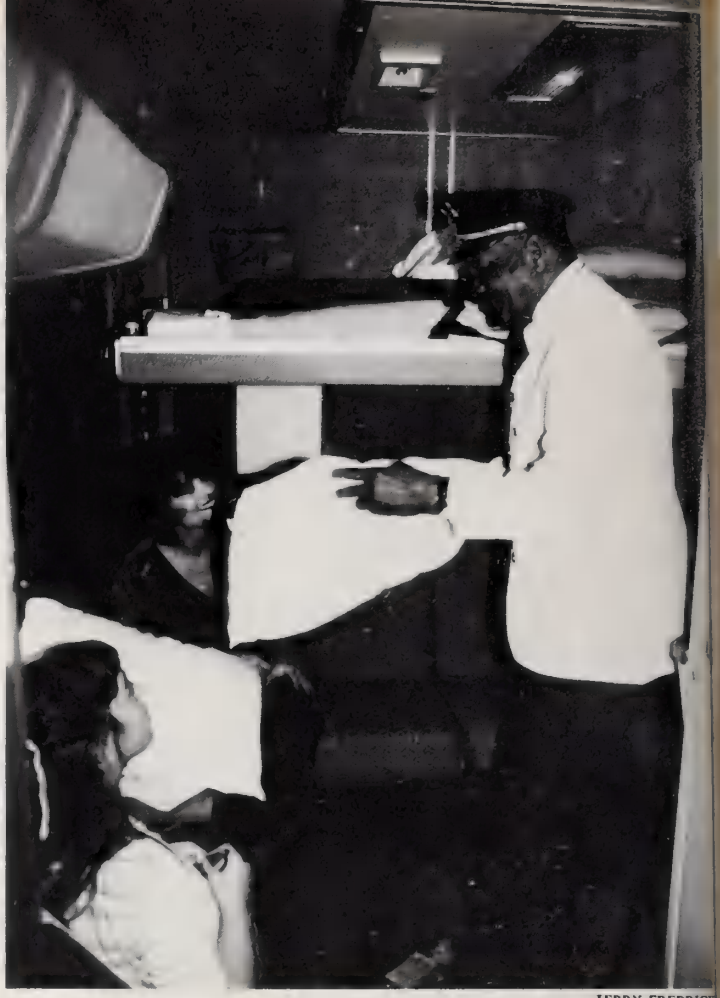
Limit: One collection per person.

Economy bedroom. *Facing seats slide out for bed. Occupant can lower upper berth*



Deluxe bedroom. *It seats four by day, sleeps three at night. Attendant must unlock top berth*

JERRY FREDRICK

Amtrak in the West this summer . . . new equipment, future uncertain

This may be the best and just possibly the last summer to take a long train trip: the best because new million-dollar, two-level passenger cars are in service on all Western routes; the last because some federal budget-cutters don't see a future for long-haul train travel.

Seats swivel *in new lounge car (it replaces Vista-Dome car)*

Yet rail travel has its pleasures. While covering the same number of miles as an airliner travels during an in-flight movie, the train rider can idle away an entire day with leisurely reading, chatting, and dining as the countryside and backsides of cities pass by, then stay up part of the night stargazing in the lounge car.

Prior to the proposed budget cut, Amtrak had been pinning its hopes on new and upgraded equipment: a rebuilt fleet in the East; new bilevel Superliner cars in the West, where tunnels are higher. It seemed to be paying off. Since the new cars were introduced on the *San Francisco Zephyr* (Oakland to Chicago), ridership has increased by 17 percent. The on-time record for the *Coast Starlight* (San Diego to Seattle) reached 100 percent in February and 96 percent in March.

Passengers can stow *baggage on first level of Superliner car, then climb to upper level with tinted glass windows*

Larger windows and the second-story view are sightseeing pluses. The temperature in the all-electric cars can be more effectively controlled. And, while the track bed is maintained by haulers more concerned with coal and cucumbers than with passengers hanging on in upper

"SOMEDAY"

we're going to see
the Old World castles. And
come back with enough memories
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All the wonder of Waikiki is just steps away. But wait till you see it from our point of view. The Hilton Hawaiian Village. A world apart.

HILTON HAWAIIAN VILLAGE

Call your local Hilton Reservation Service or your Travel Agent.

You write *your own order from dining car menu (most expensive item on recent trip: New York steak at $9.95)*

berths, the ride feels smoother.

The cars are a hit, but here are some the complaints that riders have shar with us. Passengers in economy be rooms, who were used to a toilet in t old roomettes, now must go downstai to the bathroom. Showers in the delu bedrooms are installed but don't wor neither do televisions in the café car. O ficials tell us that by this month or ne these problems should be solved.

Airline passengers will feel right at hon in coach class. Overhead lights swive trays flip down, seats recline. Smokin is not allowed in the coaches (or in full-service diner). On all overnig routes, seats in coach are reserved.

Configuration in a sleeping car is 1 economy bedrooms, 5 deluxe, and family bedroom on the top level; on th first level are a deluxe bedroom for hand icapped, bathrooms, and storage.

An economy bedroom is little larger tha a single bed—fine for one sleeper an all right for a pair of moderate-size goo friends. A small second berth lowe from the ceiling. The rooms have wi dows to the corridor. Drapes pull fo privacy or open so you can look throug the room across the corridor and out th window on the opposite side.

The deluxe bedroom has its own bath room and enough space to move aroun when the top bunk is down. But som riders say there's too little space for han luggage and hanging clothes.

The family bedroom—the largest sleep ing space—adds two child-size beds t the deluxe floor plan, but has no bath.

On the longest coastal trip (Los Angele to Seattle), coach one way for two woul be $230; add $46.50 for the econom bedroom, $161 for the deluxe. A famil of five with children 2 to 11 years ol would pay $339.75 total fare, includin the family bedroom.

This summer, expect some delay in mak ing telephone reservations with Amtrak new reservation phone lines are sched uled to start service this fall. Try to book at least two weeks in advance. □

香港

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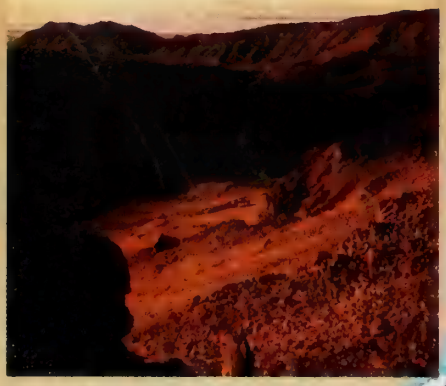

A United fly/drive vacation lets you roam beyond the beaches and really discover the Islands for yourself.

Drive to the rim of Maui's Haleakala crater for a sunrise you'll never forget.

Then follow the road to Lahaina, the whaling capital of a century ago, where the humpback whale can still be seen frolicking offshore.

Spread out a picnic at the incredible black sand beach at Kalapana, on The Big Island, or take Kauai's Waimea Canyon Road all the way to the end for the spectacular view from Kalalau Lookout, four thousand feet above the sea.

Ask your Travel Agent about United fly/drive vacations, on one island or several. And motor away to your own special paradise in our little corner of the world.

Our little corner of the world.

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Call United or your Travel Agent.

You can tour Jeffers' Tor House

King Arthur had somehow stopped at rmel on his way to Camelot, he might e stayed at a place like Tor House, craggy cliffside residence built by t Robinson Jeffers.

re at Mission Point, overlooking the e-green curve of Carmel Bay, Jeffers hioned a romantic medieval retreat of boulders rolled up from the beach. day you can tour it by making an ap- ntment with Tor House Foundation, onprofit organization that is now the ner, thanks to the efforts of the poet's ily. Docents lead groups of six ough living areas and tower.

fers completed the low-lying house in 19, and began work on the three-story awk Tower" for his wife, Una, in 20. From Old English, tor means high ky cliff or jutting rock—an apt name this structure that appears to grow of its stony site.

e use of an archaic word reflected the ple's interest in English poetry and hitecture. Robinson admired the ses of Edmund Spenser, a poet of Shakespeare's day who glorified errant knights and their search for truth. Una liked unicorns and the ancient stone towers of England and Ireland, which provided the inspiration for her own granite battlement. Her special refuge lies on the second floor: gothic windows, a secret stairway behind the paneling, and a view over the Pacific make this the perfect hideaway for a latter-day Guinevere. You can try the secret passage, but beware of claustrophobia.

Robinson Jeffers has been called the poet laureate of the Monterey coast. His house provides an introduction to the strong images he found in the area.

Tor House stands just east of Scenic Road, about a mile south of Ocean Avenue, the main street of Carmel. Tours, by reservation only, are given from 10 to 4 Friday and Saturday. They last about an hour. The price is $5 per person. Write to Robinson Jeffers Tor House, Box 1887, Carmel, Calif. 93921; or call (408) 624-1813 between 9:30 and 12:30 weekday mornings. □

DAVID STUBBS

Stanza in stone: *Robinson Jeffers built this tower on the Carmel coast for his wife. Steps lead to the parapet*

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Wherever Italians gather... *boccie*

In the Bay Area, that's Alameda, Santa Cruz, Sacramento, especially San Francisco and Martinez. You can watch or play

GREGG MANCU

Bold shooter *(right) heaves his ball downcourt to its target; more cautious roller will send his along the ground. These courts, in a Martinez park, will be the site of tournaments this month and in August.*

Italian fishermen first brought *boccie* to the Bay Area. It's a simple game requiring little equipment, and they played it near the docks while they mended their nets. Some of the best courts are still near the waterfronts, but the old game is seeing a new boom. You can watch or play at several places, and there's a big tournament on June 6 in Martinez.

The name (pronounced *botch-ee*, often spelled bocce), comes from the Italian *bacio*, meaning kiss, and indeed the object is to make you ball "kiss" or get closest to the tiny *pallino* or target ball.

Rules vary slightly according to league preferences, but the Bay Area game is generally played on courts of clay or packed earth, measuring about 82 to 92 feet long and 10 to 12 feet wide with wood or concrete side and end boards.

Two, four, or eight players split into two teams. First the wooden pallino is tossed down the court, and then the larger metal or composition balls (four per team, each weighing about 2 pounds) are aimed after it. Points are scored by the player or team that gets more of the larger balls close to the pallino. Games are 12 points, matches are two out of three games.

In most league play, you must toss the ball underhand and can bowl it on the ground (called rolling) or heave it through the air (shooting). You can knock away the pallino or an opponent's ball, or bank your shot off the boards.

Watching the shooters and rollers

San Francisco still seems to have the most boccie courts. Aquatic Park, with five courts near the green at the end of Jefferson Street, is the real headquarters. There are spectator benches, and play runs almost continuously, weather permitting. The North Beach Playground at Lombard and Mason streets has one court, and the Crocker-Amazon Playground at Geneva Avenue and Moscow Street has a court that's busy most weekday afternoons.

The challenger to San Francisco as a boccie center is Martinez. At Martinez Regional Shoreline Park, eight new courts have just opened at the end of Ferry Street, joining six courts at the end

MARGARET W. PETERSON

In Santa Cruz *at Bocci's Cellar restaurant, you can roll a game while waiting for dinner; rules are posted in a version of Italian*

He aims *his underhand toss to carry 2-pound ball as close as possible to the small pallino (target ball)*

Intense concentration *of knowledgeable spectators sometimes gives way to cheers, excitement, shouts at plays and players*

f Berrellessa Street. The Northern Cali-
ornia Championships begin here at 10
n June 6; the nationals will be August 6
hrough 9, 9 to 4 daily. And you can
atch league play on Tuesdays or Thurs-
ays at 6 or Sundays at 1.

Alameda's Lincoln Park at Santa Clara
venue and High Street has two clay
ourts. Concord Community Park (3501
Cowell Road) has two earth courts; San
Mateo's Central Park (50 E. Fifth Ave-
ue) has one. And in Sacramento, East
Portal Park at 1112 Rodeo Way has four
lay courts.

For real enthusiasts, two restaurants
ave small courts. Bocci's Cellar at 140
Encinal Drive, Santa Cruz, is open 11:30
o 2 and 5:30 to 9 weekdays, 5:30 to 10
weekends; call (408) 423-5792. Ricardo's, at 804 First Street, Napa, is open 5 to 10 Tuesday through Saturday, 3:30 to 9:30 Sunday; call (707) 253-7300.

As a spectator, you can pick up the main rules of the game. Then you may want to get involved. None of the courts rents balls, but they're sold at some large sporting goods stores. Most expensive are the brass ones for about $40 a pair; a set of eight hard molded plastic balls plus pallino runs $60 to $90.

Send for the rules

To learn the rules of the game, send a stamped, self-addressed envelope to Martinez Bocce Federation, Box 642, Martinez 94553. □

JERRY FREDRIC

At a deliberate speed *of 11 miles per hour, train pulled by Lima Shay locomotive has open-air seatin*

Plumes of steam *rise from stern-wheel barge, like lumber barges once used on millpond*

Workings *of Indian sweathouse are explained at park's Miwok Indian Village*

Westside and Cherry Valley... railway park in the gold country

The Sierra foothills boomed with gold and they boomed with timber, and now they're booming with tourists attracted by the memories of the gold and timber. One of the foothills' newest attractions is designed to pique such memories: the Westside and Cherry Valley Railway, 8 miles southeast of Sonora in the old lumber town of Tuolumne.

Starting around the turn of the century, the area was the center of operations for the Westside Lumber Company. Logs were flumed from Sierra slopes to a millpond, then hauled by rail from there to the mill. In the 1960s the mill closed down, but the lumber company's train survived to become the nucleus for today's 260-acre park.

Because the park is but three years old, many of those 260 acres contain more scenery than developed attractions, which, considering the quality of the scenery, is rather nice. But there is still much to do.

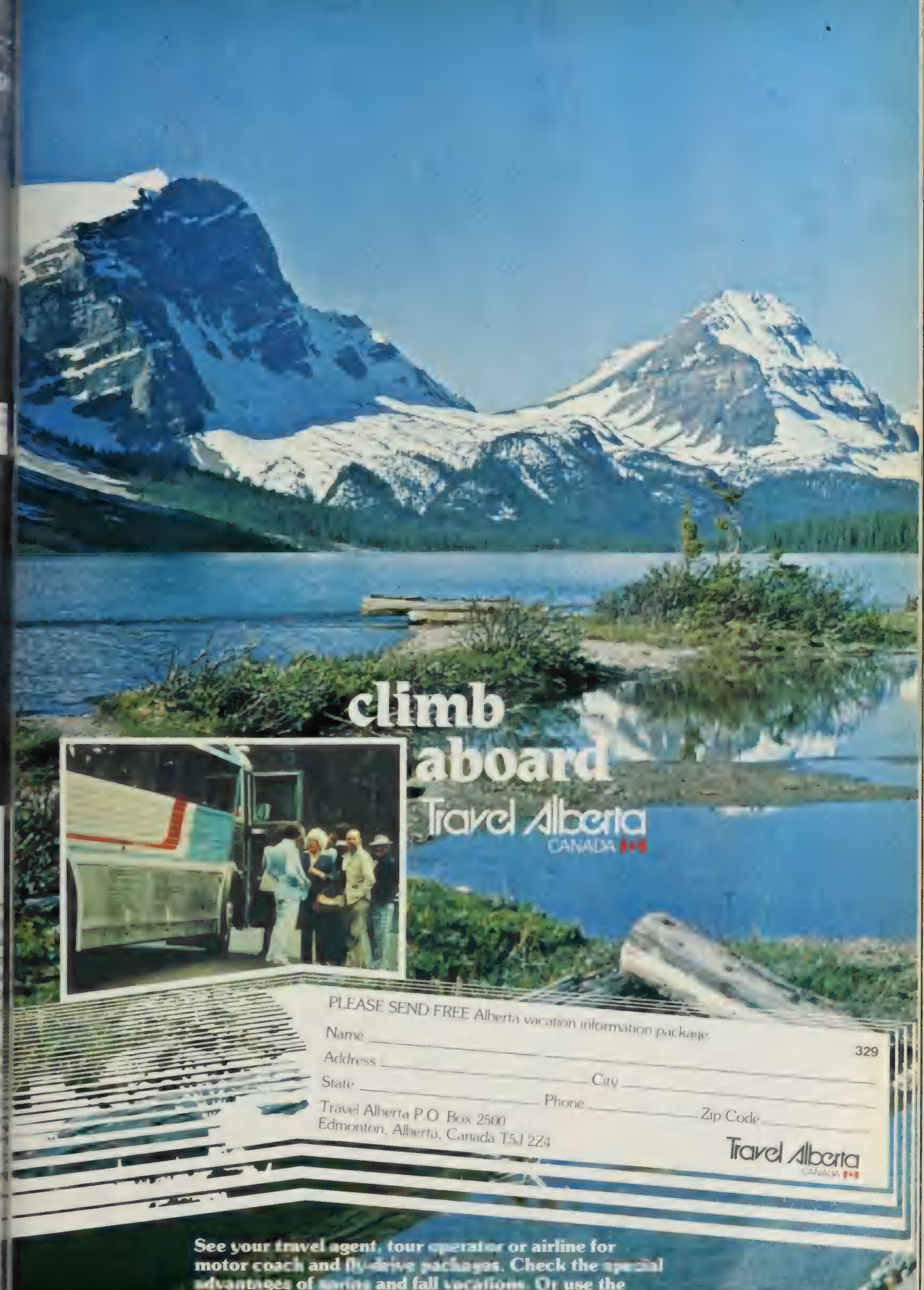
For starters you can cruise the millpond (now dredged to become a respectable-size lake) in a stern-wheel steam barge. You can bounce about in one of the park's antique buses or cars. And you can board trains: three Lima Shay locomotives (characterized by a boiler sitting off-center for balance) pull visitors along the perimeter of the park. The ride is sometimes smoky, occasionally sandy (sand is used to clean out the engine), always pretty, and it leads you to two of the park's more interesting attractions.

The Westside Lumber Company Car Shop is so rustic that elsewhere it might have been turned into a fern-strewn restaurant. Here it holds antique machinery still in working order; nearby is the engine shop where the park locomotives are maintained.

On the other side of the park sits a reminder of still-earlier Sierra history. The Miwok Indian Village contains a sweathouse, an acorn-leaching pit, and numerous artifacts—baskets, arrows, soaproot hair brushes—of a culture that once dominated this part of California. Tribe members are on hand to explain it all.

Other attractions in the park include an ice cream parlor, a delicatessen, and the shops and restaurants of a Mexican Village. From there, small flower-decked boats leave for 90-minute dinner cruises. Dinners cost $18 and reservations are required: call (209) 928-4198.

To reach the park, take State Highway 49 to Sonora, then State 108 east 3 miles to Tuolumne-Sonora Road; turn southeast and continue 5 miles to the park. Hours are 11 to 8 daily; a ticket enabling you to ride all the park attractions costs $3; children under 3 are free. □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KEN COOPERRIDER

July snow lingers *on mountain tops, but trail hiking is warm enough for shorts*

The Swiss rule ... "stay on the trail"

The Swiss can't argue about which of their national parks is oldest or largest. The Swiss National Park, established in 1914, is their only one.

About 20 miles northeast of St. Moritz, the park covers 65 square miles of medium-high mountains (to 10,430 feet) and deeply cut, wooded valleys in easternmost Switzerland.

Hikers in this nature reserve are forbidden to leave trails, to minimize the impact of some 250,000 visitors annually.

Wildflower bloom peaks in the second half of June, and from then until the first snows (from late August) is the best time to visit.

The railroad runs from St. Moritz to Zernez, where the park has its headquarters. From the station, you can ride into the park by postal bus (at least three return trips daily) on a highway that crosses into Italy. The hotel at Il Fuorn, along this road, is the only one in the park, but there are three in Zernez and about 20 in Schuls (also called Scuol), both on the rail line. For advance reservations—strongly recommended—names and addresses from tourist off (7550 Bad Scuol, or 7530 Zernez, S zerland). Then communicate dire with a hotel.

"Blockhouses" at Val Cluoza and at rusch, both reached by trail, prov beds, mattresses, meals. Reserve spac these after arrival in the area.

Inquire locally about guided early-mo ing walks from Schuls and from Zern Or hike on your own.

On the short hike from Il Fuorn Alp Grimmels—past quantities of w daphne with tiny, sweet-smelling flow —we saw red deer and a large colo of marmots. Chamois, ibex, and ab 25 other mammals are also found he

For a copy of the *Short Guide to Swiss National Park*, with a map, wr to Swiss National Park, 7530 Zern and enclose a bank draft or internatio money order for 5 Swiss francs (ab $2.60). For further information, wr the Swiss National Tourist Office, 2 Stockton St., San Francisco 94108.

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More Mexico

Diego Rivera, The Grand Tenochtitlan (detail), National Palace, Mexico City.

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Spectacular views of the Pacific. A secluded beach complete with quaint palapa huts. Plus the great nightlife of Puppet disco. The charming decor of Laffite international restaurant, a unique salad bar. Tennis. Golf nearby.

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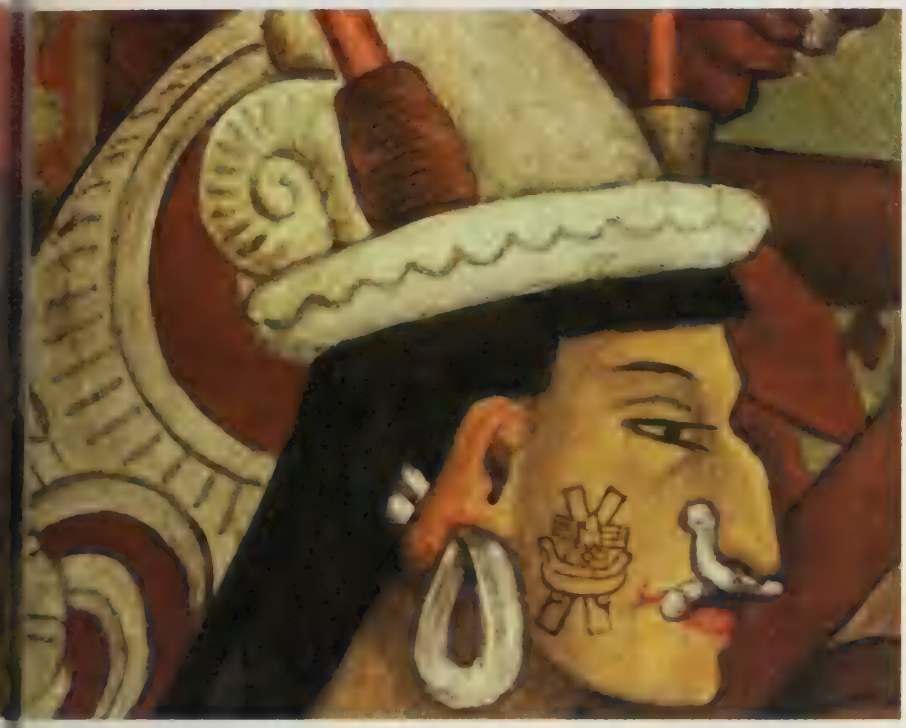

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We want to extend special thanks to the Mexican National Tourist Council, who helped us obtain permission to photograph the murals pictured in this campaign.

WESTIN HOTELS

DAVID STUBBS

Synthesizer *helps composer Maggi Payne prepare new music concert piece*

"New music" week in San Francisco

New music almost defies definition, but generally this broad term includes contemporary music performed in an untraditional manner—sometimes with wind harps, computers, even electronic sculptures. San Francisco celebrates this music for the first time with a week-long festival June 7 through 13.

At the 1,000-seat Japan Center Theatre (Post and Webster streets), 2-hour concerts start each night at 8.

Some highlights: June 7, performance art and computer music; June 8, the Arch Ensemble; June 9, sax improvisation; June 10, harpsichord and recorder; June 11, vocalists and dancers; June 12, electronic music with slides; June 13, Indonesian gamelan music. Admission is $6 ($4.50 for students and seniors). You can buy tickets at the door, or reserve seats by calling (415) 392-4400. At noon on June 12 and 13, there'll be free concerts in Marx Meadow, off Marx Drive in Golden Gate Park.

During festival week, new music instruments will be on display at 80 Langton Street gallery (open 10 to 6 daily); free.

At the Exploratorium at the Palace of Fine Arts, near Lyon Street off Marina Boulevard, you can play a "sound column" sculpture inside or listen to an Aeolian harp on the roof. New music workshops are also planned; for details, call (415) 563-7337. Hours are 1 to 5 Wednesday through Friday, noon to 5 weekends; donations requested. □

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Ice age landscape *is passenger's view aboard sightseeing plane from Juneau*

Mountaintops jut *through dazzling white crust of Juneau Icefield*

Ice flight into the geologic past

Frozen remnant of the Pleistocen Epoch when great sheets of ice advanc and retreated over much of North Ame ica, Juneau Icefield is a geologic relic immense proportion.

Just a short air-hop due north of Junea the icefield is the highlight of an hou long "flightseeing" excursion from Ala ka's capital. Leaving the city behin your airplane almost becomes a time ma chine, affording a view of the world as might have looked 125,000 years ag when the last ice age started.

The 1,500-square-mile Juneau Icefield a vast wasteland of rolling snowfield

cted by jagged ice pressure ridges, ed by deep blue crevasses, and per- ted by stark black peaks of icebound ntains. This icefield is the source of major glaciers that still scour the ks of the Taku Range. Geologists are ying the awesome icefield on the nd, but an aerial reconnaissance is as spectacular.

ield from the air

s summer, four air taxi companies offering excursions over the Juneau ield. Depending on the weather and craft, flights range from about 40 utes to an hour; cost runs $50 to per person, two-passenger minimum. lines usually try to group passengers. craft can vary from a three-passenger sna to a nine-person Grumman ose. Take along a pair of sunglasses cut the glacial glare. Pilots should lain the view below.

rd Air and L.A.B. fly from Juneau's rnational airport. The other airlines floatplanes that leave from floatplane ks near Merchant's Wharf in town t next to the landing dock for cruise shore launches.

ervations are advisable, but they n't mandatory (last-minute arrivals usually get a seat). Cruise ship pas- gers can make reservations through ir ship's purser. Other Juneau visitors write ahead or call direct to check ces and seat availability.

re are the four flight operators:

nnel Flying, 2601 Channel Dr., eau 99801; (907) 586-3331.

.B. Flying Service, Box 2201, eau 99803; (907) 789-9160.

theast Skyways, 14 Marine Way, eau 99801; (907) 789-0790.

rd Air, 1873 Shell Simmons Dr., te 5118, Juneau 99803; (907) 789-9150.

acier viewing on the ground

en possible, plan a glacier visit before take an icefield flight. One of the few askan glaciers accessible by road, Men- hall Glacier is a 13-mile-long river ice that drops 4,500 feet from the eau Icefield almost to sea level. Barely 14-mile drive from downtown Juneau miles north of the airport) is the gla- r visitor center, staffed by the U.S. rest Service.

erpretive displays at the center dem- strate the history and dynamics of the field and its glaciers; a 10-minute slide gram explains the formations you'll e. Through telescopes, you can ex- ine the face of the glacier a half-mile ay. Several trails take you to closer ntage points.

e center is open daily 9 to 6 from mid- ay to the end of September, weekends ly the rest of the year. For information hiking and camping around Menden- ll Glacier, write to the U.S. Forest rvice, Box 2097, Juneau 99803. □

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Boatman tugs on oars *to maneuver raft for tumble down rapid*

Down the Rogue one to five days, 35 outfitters

A float trip on one of the West's mo scenic whitewater rivers can be a hig light of a visit to Oregon's Rogue Riv Valley (see page 84). West of Gra Pass—gathering place for most trips the Rogue twists down rugged canyo and froths through rocky chutes. Veter river runners rate some Rogue rapi among the nation's most challenging.

An 84-mile segment of the Rogue is pa of the National Wild and Scenic Riv System; we list 35 outfitters who r summer trips (one to five days) alo various stretches of this section. Whi water craft include driftboats, rubb rafts, and inflatable kayaks (you pado these). Four outfitters offer instruction workshops in rafting or kayaking.

Overnight float trips involve camping shore or accommodations in rustic rive side lodges. On longer trips, you ha more time for fishing, wildlife watchin

One-day floats cost from $22 to $60 p adult, usually including lunch. Overnig trips with camping run from $50 to $ a day including meals; with nights lodges, about $80 a day and up. A about age limits and lower rates f children.

It's best to reserve trip dates a few wee in advance. Write or call outfitters f details; most can send you a brochure.

Adventours—Wet 'n Wild, Box 1500, Woodland, Calif. 95695; (916) 662-5431. Raft trips: one day ($60 per person), two days with camping ($100), four days ($305 five days ($365).

Anders Guide Service, Box 111, Trail, Ore 97541; (503) 878-2033. Raft and driftboat trips with camping: three days ($250), four days ($300).

American River Touring Association, 1307 Harrison St., Oakland 94612; (415) 465-9355. Raft trips: three days with nights

BERT FOX

Narrow river ahead: *Mule Creek Canyon squeezes the Rogue through some tight whitewater chutes*

lodges ($235), four days with camping 285). Whitewater workshops.

aver State Adventures, 4430 Laverne ve., Klamath Falls, Ore. 97601; (503) 4-7587. Raft trips: one day ($40 to $60), ree days with camping ($235), three days th nights in lodges ($365).

iggs Guide Service, 2750 Cloverlawn Dr., rants Pass, Ore. 97526; (503) 476-2941. hree-day raft trips with nights in dges ($250).

cho: The Wilderness Company, 6529 legraph Ave., Oakland 94609; (415) 2-1600. Raft trips: four and five days th camping ($300 and $355, respectively), ree days with nights in lodges ($245). hitewater schools.

alice Raft Trips, Box 638, Merlin, Ore. 532; (503) 476-3818. One-day raft ps ($22).

ayne Gardner Guide Service, Greenwood r., Leaburg, Ore. 97401; (503) 896-3215. hree-day driftboat trips with nights in dges ($425).

rants Pass Float Co. (We-ask-u Inn), 00 Rogue River Hwy., Grants Pass, Ore. 526; (503) 479-2455. One-day raft and flatable kayak trips ($40).

ean Helfrich Guide Service, 2722 Harvest ane, Springfield, Ore. 97477; (503) 47-8401. Raft and driftboat trips: three ays with camping ($290) or with nights lodges ($350).

mes Henry River Journeys, Box 807, olinas, Calif. 94924; (415) 525-6578. aft and inflatable kayak trips: five days ith camping ($325).

ute Jerstad Adventures, Box 19527, ortland 97219; (503) 244-4364. Five-day ft trips with camping ($395).

ower Rogue Canyon Outfitters, 1202 E. lain St., Medford, Ore. 97501; (503) 72-8467. Raft trips with camping: three ays ($255), four days ($340).

orthwest River Outfitters, 422 Nebergall oop N., Albany, Ore. 97321; (503) 26-2125. Driftboat and raft trips: three ays with nights in lodges ($250), four ays with camping ($335).

.A.R.S., Box 67, Angels Camp, Calif. 5222; (209) 736-2924. Raft trips with

Chevron seismologists are listening for oil 20,000 feet underground.

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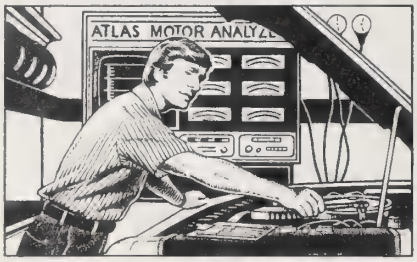

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camping: four days ($305), five days ($365).

Terry O'Connor's Guide Service, 7994 Gladstone St., White City, Ore. 97503; (503) 826-5658. Raft trips from one to four days, some with camping, some with nights in lodges (about $80 per day).

Orange Torpedo Trips, 777 Debrick Way, Grants Pass, Ore. 97526; (503) 479-5061. Three-day trips by inflatable kayaks with nights at lodges ($250).

Osprey River Trips, 6109 Fish Hatchery Rd., Grants Pass, Ore. 97526; (503) 479-4215. Four-day raft trips with camping ($280). Whitewater school in June.

Outdoors Unlimited River Trips, Box 22513, Sacramento 95822; (916) 452-1081. Five-day raft trips with camping ($335).

River Adventure Float Trips, Box 841, Grants Pass, Ore. 97526; (503) 476-6493. Three-day raft trips with nights in lodges ($260).

River Roam, 367 Maple St., Ashland, Ore. 97520; (503) 488-0029. One-day trips by inflatable kayak ($40).

River Trips in Oregon, 5649 McLoughlin Dr., Central Point, Ore. 97502; (503) 779-1880. Raft trips with camping: three days ($225), four days ($300).

River Trips Unlimited, 900 Murphy Rd., Medford, Ore. 97501; (503) 779-3798. Driftboat and raft trips: one day ($35), three and four days with nights in lodges ($255 and $340, respectively).

Robertson's Guide Service, 3424 Amber Lane, Grants Pass, Ore. 97526; (503) 479-9554. One-day trips by raft and inflatable kayak ($35); three-day raft trips with camping ($250).

Rogue Excursions Unlimited, Box 855, Medford, Ore. 97501; (503) 773-5983. Raft and driftboat trips with camping or nights in lodges: three days ($240), four days ($320).

Rogue River Raft Trips, 8500 Galice Rd., Merlin, Ore. 97532; (503) 476-3825. Raft trips: one day ($160 per boat), three days with nights in lodges or four days with camping ($255 per person in group of four or more, $280 per person in smaller group).

Ron's Rogue River Guide Service, 1201 N. Third St., Central Point, Ore. 97502; (503) 664-5717. Raft trips with camping: three days ($250), four days ($325).

Smith's Rogue Adventure, 2036 Crestbrook Rd., Medford, Ore. 97501; (503) 779-3708. Driftboat, raft, inflatable kayak trips: one day ($45); two days, night at lodge ($165).

Southern Oregon Raft Trips, 12196 Galice Rd., Merlin, Ore. 97532; (503) 476-6555. Raft trips: one to four days ($68.75 per day with camping, $95 per day in lodges).

Sundance Expeditions, 14894 Galice Rd., Merlin, Ore. 97532; (503) 479-8508. Raft trips: three days with nights in lodges ($275), four days with camping ($275). Nine-day kayak school ($630).

Gil Ward Guide Service, 4415 River Rd., Salem, Ore. 97303; (503) 390-1241. Driftboat and raft trips with camping: three days ($295), four days ($350).

Whitewater Voyages, Box 906, El Sobrante, Calif. 94803; (415) 222-5994. Four-day raft trips with camping ($280).

Bryce Whitmore Wilderness Water Ways, 33 Canyon Lake Dr., Port Costa, Calif. 94569; (415) 787-2820. Raft trips: three days with camping ($160) or with nights in lodges ($185).

Wilderness World, 1342 Jewell Ave., Pacific Grove, Calif. 93950; (408) 373-5882. Five-day raft trips with camping ($310).

Wild River Tours, Box 500, Lotus, Calif. 95651; (916) 626-5042. Five-day raft trips with camping (about $300). □

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**EPA 32 estimated MPG, 44 estimated MPG hwy. Use these figures for comparison. Your mileage may vary due to speed, weather and trip length. Actual hwy. mileage will probably
*Diesel engine not available in California until 1982.

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DAVID FRANZEN

Final inches *of traditional flowers-and-foliage haku lei are woven in (left), while a flowers-only kui lei (right) finds a would-be model*

Lei makers in Honolulu's Chinatown

Ever since Hi'iaka braided lehua blossoms and leaves into a necklace for her sister, Pele, leis have been part of Hawaiian culture and tradition. They were presented to royalty as tokens of respect, and were worn during religious ceremonies as gifts to the gods. They were also exchanged by friends and lovers as expressions of affection.

Today, this gentle island tradition still flourishes. Flower leis are now one of Hawaii's best-known trademarks; they're also a booming business in the state.

If you can resist the blandishments of airport and hotel-lobby vendors (often a glance at the price will help), do your lei shopping at one of the small stands in Honolulu's Chinatown on or just off Maunakea Street.

Locals shop here because prices are good (sometimes 40 percent less than those at the airport) and often the flowers are fresher. An additional enticement is the chance to watch nimble-fingered ladies string flowers (*kui*) or braid or wind flowers and greens (*haku* or *wili*), creating a lei to your specifications.

Squeezed into tiny storefronts, Maunakea Street's eight stands are located in the four short blocks between Beretania Street and Nimitz Highway. Glass cases hold ready-made leis for shoppers on the run. But in the twilight recesses of the shops, piles of fresh vanda and dendrobium orchids, tuberoses, pikake, plumeria, ginger, kika (cigar flowers), and carnations (a local favorite) are being made into more leis. These are for bulk orders from businesses, tour companies, private parties, and some airport and hotel flower stands.

Prices vary, depending on the season and availability of flowers. The most expensive seasons for leis are winter and graduation time. Much of the year, a basic plumeria or tuberose lei off the rack should cost around $2 or $3; carnation leis may sell for $5 to $6 (twice that around June graduation). You'll probably pay a little more if you want something special made while you wait. Do negotiate the price if you are buying more than a couple of strands.

Except for Lorry's (910 Maunakea), which does only made-to-order work, all eight stands usually have a case of leis ready for sale. Maunakea Leis & Flowers (1189 Maunakea) specializes in maile vine and flower combinations for $15 to $25. Lita's Leis & Flower Shoppe (59 N. Beretania) and Flowers by Ailene (930 Maunakea) sell finely made haku leis starting at $18, but you should place your order at least a day or two ahead. (Some haku leis, depending on the plant material involved, can be dried and kept for years. Check Cindy's, Jenny's, Lin's, and Violet's for strung-flower bargains.

Most of these shops are open daily from about 7 A.M. to 9 P.M. □

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DON NORM

Boardwalk *on Mount Hays leads you from gondola lift to outlook point with spectacular views to west, north, and south*

Spectacular 1-hour aerial adventure in Prince Rupert

Is Prince Rupert a stop on your Alaska cruise this summer? If so, here is a brief shoreside excursion from the port, in northern British Columbia, which takes only about an hour. Enjoy it as a change of scene while your ship is tied up.

A 10-minute taxi ride from the ship brings you to the base of 2,400-foot Mount Hays. From here, a four-person enclosed gondola will whisk you up the mountain in a spectacular ride.

At the top 10 minutes later, you are in a world of alpine tundra, very different from the forest environment at sea level. Much of the landscape is made up of wind-dwarfed spruce trees, mats of bunchberry, blueberries, and labrador tea shrubs with tiny clusters of flowers like miniature rhododendrons. Moss covers much of the spongy ground, eternally frozen except for the top inch or two, which thaws in summer.

But it is the view that astonishes. From the little lodge at the lift's upper terminus, a 2½-foot-wide boardwalk snakes off past three or four viewpoints, each with a bench for relaxing. From any one of them, you get a bird's-eye view of the town below you and, beyond, myriad tree-topped islands afloat on a shimmering sea. On a clear day, southeast Alaska looms to the north, and the Queen Charlotte Islands appear like mammoth shadowy whales in the southwest. The entire boardwalk loop can be traversed in 15 to 20 minutes.

The Mount Hayes gondola lift operates during May, June, July, and August, Wednesday through Sunday from noon to 8 and by special arrangement whenever a tour ship is in port. Cost is $4 ($3 for children 5 to 12 and seniors); cruise passengers, however, may have an opportunity to buy a tour package aboard ship that includes the lift.

On your way back to the ship, notice the immaculately maintained 18-hole golf course. If you have time for a game, golf carts, pull carts, and motorized carts are for rent. □

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LARRY B

Only minutes *from downtown, joggers leg it past visitor center along Levee Parkway trail in Lewiston, Idaho*

Jogging, biking along the Snake

Just a block or two from the bustle downtown Lewiston, Levee Parkw leads you to a quieter world of outdo activity. For 11 miles it winds along t Snake and Clearwater rivers, touching three parks, a half-dozen boat landing and a good variety of places to picni fish, or swim.

There's even a birling pond, where yo can try your hand (and feet) at th ancient sport of logrolling.

The Army Corps of Engineers projec opened in the spring of 1978. Its heart a hard-surfaced trail for joggers, walker and bicyclists. A side trail for walke leads uphill for about a mile to sweepin views of the city and of the confluenc of the two rivers.

The main trail is lighted, so you can us it after sundown.

Levee Parkway trail starts 4 miles sout of downtown Lewiston, at Hells Gat State Park. Here you'll find trailer an tent campsites (from $5 a night), a swim ming area, playground and picnic facili ties, and a visitor center that's usuall open daily from 9 to 4.

There's also a riverside marina where you can rent a bicycle (from $2 per hour

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LARRY BULL

It's easy wheeling *for bikers along the flat, smooth riverside trail*

Tenuously *balanced birlers at Clearwater Park will soon get dunked*

from 9 to 5 weekdays, 9 to 6 weekends. Fishing this month from a boat or landing should be good—for catfish, bass, and crappie.

North of Hells Gate about 3 miles, the trail passes Lewiston's Kiwanis Park, with more opportunities for daytime picnicking.

The parkway continues through Lewiston, past the still unfinished Lewis and Clark Visitor Center with its sculpture of *Tsceminicum,* a cast-concrete mural of a woman and wildlife based on Indian legends. After a swing across the Clearwater River, the route passes Clearwater Park (day use only) where you can sport in the birling pond. In about 4 miles, the parkway ends at U.S. Highway 12.

To get there from U.S. 12 take the Levee Bypass exit at the Interstate Bridge in Lewiston or the exit at 18th and Main streets, and continue to the parkway. Or take Snake River Avenue south from U.S. 12 past Kiwanis Park to Hells Gate.

A map showing parking and access points is available free from the Chamber of Commerce, Park Place - Lewis Clark, Lewiston 83501; telephone (208) 743-3531. □

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DAVID STUB

Morning roundup *is sometimes a battle of wills between burro and hiker ready to load up and hit the tra*

What are burros? They are strong, gentle, amusing, sometimes balky

Readers tell about the burro hike. What's good, not so good

Unencumbered hikers *lead burros bearing 75-pound loads. Trail overlooks Florence Lake in western Sierra Nevada*

"**They are strong,** kind, sociable creatures—and very hard to stop when they want to move," reports Sissy Haet of San Anselmo, California.

"They tried wandering off repeatedly. One got two of my fingers between his teeth and wouldn't let go," recalls Richard Bower of Concord, California.

Last summer, we asked readers who had rented a burro to use on a pack trip to write in and tell us about their experiences—good or bad. Then a *Sunset* team tried burro packing. Their response was largely positive with some reservations; ours was thoroughly enjoyable.

So, with all reports considered, here's a rundown on how a burro can help you on the trail. We list burro rental outfits in the Sierra Nevada on page 80.

Why take a burro or burros along?

A pack burro can open up otherwise inaccessible wilderness to hikers with children too young to carry a backpack or

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DAVID STUBBS

A nuzzle or nudge *is one way a burro communicates with trailmates*

to those who just don't want to lug a heavy pack. A burro allows you to cover more distance with less effort. And a burro can haul some luxuries that weight- and space-conscious backpackers do without—such as a Dutch oven and bulky fresh meats and vegetables.

With a little instruction at the trailhead pack station, almost anyone can handle an even-tempered burro. We saw a 10-year-old pack and lead one with help.

There are limitations: a burro's walking pace may slow you down if you like to hike fast; you must stick to marked trails; and you must attend to the animal's packing, care, and feeding each day. But generally if you take care of him, he'll take care of you.

"Burros, beans, and brawn won the West"

They've been called donkeys, jackasses, even Colorado canaries. Much smaller than horses, they weigh in at an average 400 to 500 pounds and stand about 3 to 5 feet high at the shoulder. Their small size makes them easy to pack and handle; their small hooves don't require shoes (and don't tear up trails as badly).

The burro (*Equus asinus*) can reproduce, unlike the mule (the sterile hybrid produced by a burro and a horse). Burros—jacks and jennies alike—are a hardy breed: they can survive on vegetation too sparse to support a horse and can go without water almost as long as a camel can. Because of their toughness, they played a major part in Western expansion. "Burros, beans, and brawn won the West," says Curtis Imrie, burro race champ of Fairplay, Colorado.

Nevertheless, this animal suffers an image problem. Burros are painted as being balky, stubborn, even cantankerous. Our readers offered some reasons. "Burros are reluctant to leave and eager to get back," says John Minney of Walnut Creek, California. "Ours wouldn't cross running water. We had to make an 11-mile detour around a 12-inch stream," reports Betsy Mewborn of Torrance, California. "But there are times when a burro knows better than you about the safety of a trail," says Nancy Havens Rose of Riverside.

Most readers reported that once they adjusted to the pace and needs of the burro, problems lessened. "Burros, like people, have varying dispositions, but most are cooperative if loaded moderately and fed well," says Stanley Sorem of Lafayette, California.

For some hikers, one of the joys of burro packing is getting to know the animal's personality. Most are affectionate, curious, communicative. They'll let you know by a nudge or a bray if there's something they want. (They'll also let out an occasional nocturnal bray just to let you know they're there.)

Care and feeding of your trailmate

At the pack station, the outfitter will give you a rundown on handling the animal. Outfitters like to hire burros out in pairs, contending that two keep each other company and are easier to handle than one alone.

You'll be shown how to curry or brush

Sometimes their affection is a bit much. And they tend to be leery of running water

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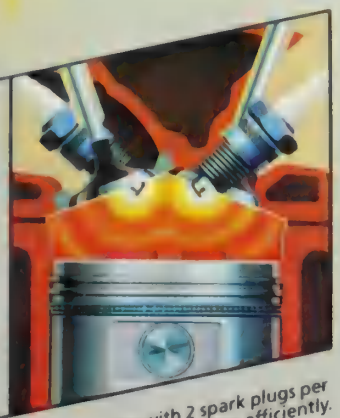

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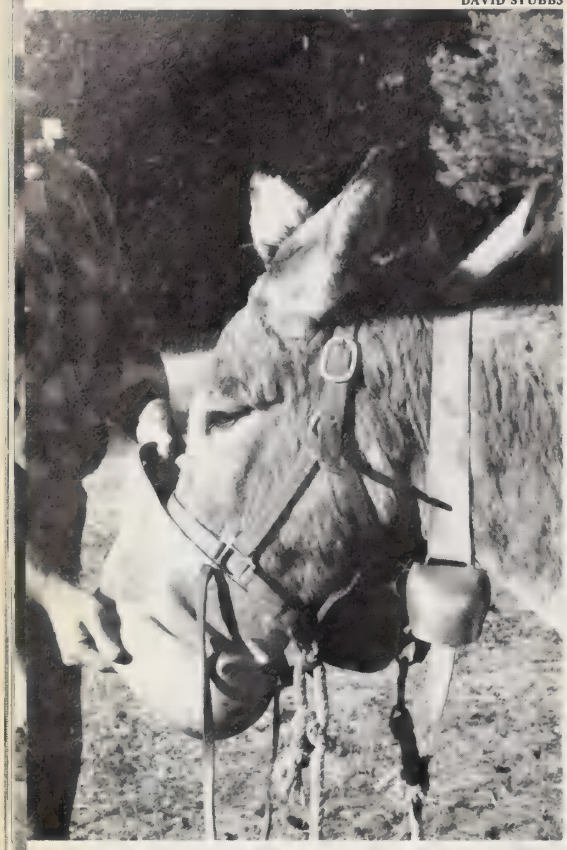
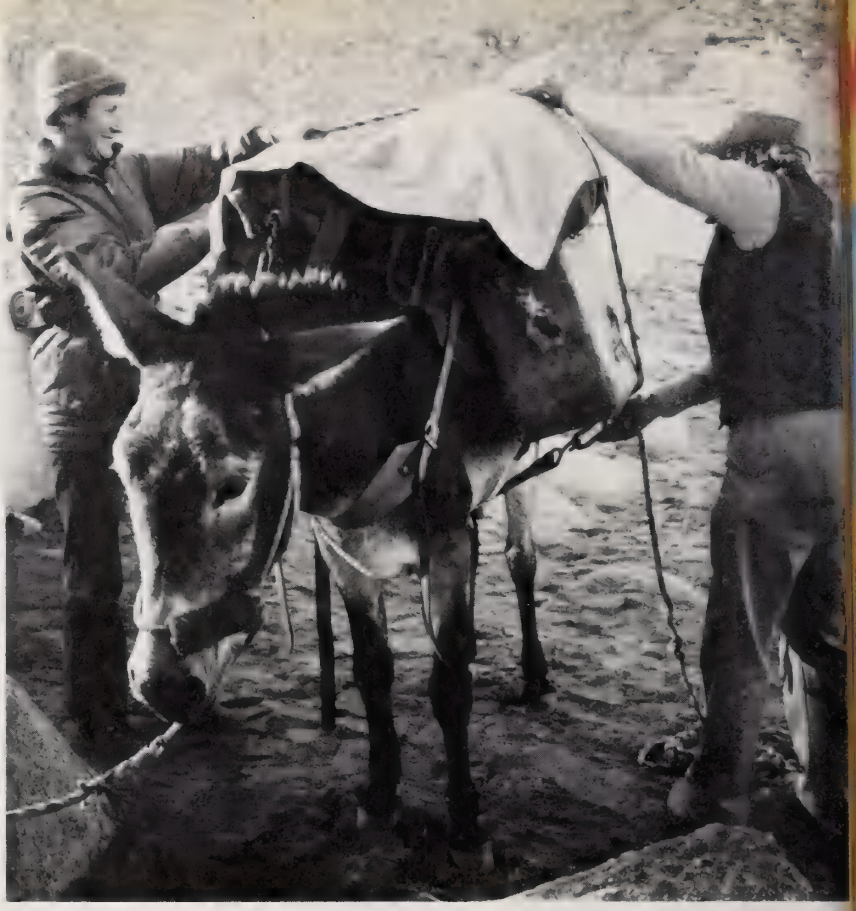


"Spike" munches *on ration of oats in feed bag; neck bell announced his location when he wandered during grazing*



Burro packing *takes a bit of practice: load must be balanced, hitches secure; task takes novices about 20 minutes*

him, saddle him, and pack and lash on the panniers (side packs). Each burro can carry up to 75 pounds, but the weight must be evenly distributed and the load securely tied down. Some outfitters will lend you a small weighing device to make sure you balance the load.

Pay close attention as the packer demonstrates the hitches you use to lash down the panniers; practice them in his presence—it's easy to forget them once you're out on your own. Packers supply the panniers, ropes, canvas tarps. You bring all cooking and camping gear and food and clothing (keep the weight limit in mind). A duffel bag is good for stowing loose gear on the animal.

An hour or so down the trail, if you and your burro are having adjustment problems, you can usually return to the pack station and switch animals.

On the trail, you walk ahead of the burro, loosely gripping his lead rope. A sturdy pair of gloves will protect your hands from the rough ropes and a stout pair of boots will shield your feet against wayward hooves.

Each night, you'll unload and unsaddle the burro, then brush and feed him. Some packers will give you grain and a feed bag, others will recommend letting the burro graze, depending on the supply of grass and the sensitivity of the environment you're traveling in. You may find your burros hanging about the campfire begging for handouts; use common sense in what you let them eat and watch your fingers. Some packers recommend burros be securely tethered at night to prevent the possibility of a runaway.

Seven Sierra outfitters hire out burros...about $10 a day

Sierra pack stations that rent burros

The Sierra Nevada is one of the last bastions of burro packers. Seven outfitters there hire out burros for use in such areas as the John Muir Wilderness, Kings Canyon National Park, and Mineral King. Costs are moderate, usually about $10 a day; some outfitters require a week's minimum rental.

The season begins as soon as the snow melts in the higher passes (sometimes by early June) and lasts until Labor Day. It's best to write or call well ahead to reserve burros, especially for weekends or popular vacation periods.

Cherry Valley Pack Station, Box 5500, Sonora, Calif. 95370; (209) 532-2961 or telephone Cherry Valley number 2 through Stockton. Season is June 1 through November 8; rates are $10 per day or $60 per week. Trips into Stanislaus National Forest.

Horse Corrai Pack Station, Box 848, Kings Canyon National Park, Calif. 93633; (209) 332-2342 or telephone Cedar Grove number 2. Mid-June to September; $8 per day. Trips into Kings Canyon National Park.

McGee Creek Pack Station, Box 1026, Bishop, Calif. 93514; (714) 935-4324 or 872-6071, June 1 to October 15; $75 per week. Trips into John Muir Wilderness.

Mineral King Pack Station, Box 61, Three Rivers, Calif. 93271; (209) 561-4142 or call Mineral King number 4. June 15 to September 15; $12 per day. Trips into Sequoia National Park, Mineral King.

Pine Creek Pack Station, Box 968, Bishop, Calif. 93514; (714) 873-3620 or 387-2797. July 1 through September 30; $9 per day. Trips to Pine Lakes, Honeymoon Lakes, French Canyon.

Fred Ross - Lost Valley Pack Station, Box 288, Lakeshore, Calif. 93634; (408) 238-0632. June 15 to October 15; $60 per week. Trips into Sierra National Forest, John Muir Wilderness, Kings Canyon National Park.

Schober Pack Station, Bishop Creek, Calif. 93514; (714) 387-2343 or 873-4785. Late June to mid-September; $10 per day with $150, two-burro minimum. Trips into Evolution Valley, Kings Canyon National Park. □

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AD-5

BILL ROSS

Buffalo roam *the interior of Catalina Island. On guided inland trek, hikers from marine institute get a close look from a safe distance*

Natural history adventures at Catalina. You must plan ahead

An offshore island is a more enticing place to study natural history than a mainland classroom, as students have discovered at the Catalina Island Marine Institute on Toyon Bay, about 2 miles up the coast from Avalon. The institute occupies the old Spanish-style buildings of a former boarding school.

Although the institute's programs were developed for children, their weekend activities have become popular with colleges and community groups. You have to plan well ahead to participate.

Programs vary; you may learn how to identify different kinds of clams and crabs at a lecture before venturing to the shore for beachcombing, tidepooling, and snorkeling. You may study Catalina history or geology in the classroom, then hike inland for a first-hand look. Evening programs may include a star hike, a night dive, or a campfire.

A weekend excursion can cost from about $80 with a community group to more than $150 for a college class. The fee includes accommodations in a dormitory room, cafeteria meals, transportation to Avalon, and college tuition. The institute provides boats for the 20-minute ride to Toyon Bay.

June. Golden West College in Huntington Beach, *Island Ecology*, June 18 to 21. Cost: about $100. Study of marine habitats, plus several trips inland to identify and classify plants. Telephone the registrar at (714) 892-7711; for additional information ask for Don Lindsay in the biology department.

August. UC Irvine Extension, *The Natural History of Santa Catalina Island*, August 14 through 16. Fee of $157.50 includes 3 units of college credit. Focus is on marine ecology. Telephone (714) 833-5414.

September. American Cetacean Society, Orange County Chapter, *Weekend at Catalina Island Marine Institute*, September 18 through 20. Cost: $87.50 for nonmembers, $55 for children under 12. Again the focus is on marine ecology. Telephone (213) 439-9554.

To be notified about Sierra Club trips to the institute in 1982, send a stamped, self-addressed envelope to Alice Goldberg, 5950 Imperial Hwy. #43, Southgate, Calif. 90280.

For information on a group trip you can join (or initiate with 25 or more people), write to Catalina Island Marine Institute, Box 796, Toyon Bay, Avalon, Calif. 90704; or call (213) 510-1622. □

Skin-diving *students use institute's wet suits, masks, snorkels, flippers*

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Seaside
Monterey Subaru, #2 Geary Plaza 93955
Sonoma
Country Motors, 870 Broadway 95476
Sonora
Royce Motor Co., 3710 Mono Way 95370
South Lake Tahoe
Tahoe Subaru, 1875 Lake Tahoe Blvd. 95371
South San Francisco
Ron Price Subaru, #1 Chestnut Ave. 94080
Stockton
Thomas Motors, 600 N. El Dorado 95202
Sunnyvale
Royal Subaru, 805 E. El Camino Real 94087
Ukiah
Autoland Motor Co., 1199 N. State St. 95482
Vallejo
British Motors-Subaru, 140 Yolano Dr. 94590
Visalia
Putnam/Windh Subaru, 700 E. Main St. 93277
Walnut Creek
Diablo Subaru, 2646 Main St. 94596
Yuba City
Central Motors, 226 Bridge St. 95991

NEVADA

Elko
Western Motors, 1084 Idaho St. 89801
Reno
Teddy Bear Havas Motors, 1500 S. Virginia St. 89502

UTAH

Cedar City
Tri-State Motors, 298 S. Main St. 84720
Logan
Dahle's Subaru, 1815 N. Main 84321
Murray
House of Compacts, 5299 S. State St. 84107
Ogden
Subaru of Ogden, 3377 Wall Ave. 84401
Provo
Subaru of Provo, 312 S. University 84601
Salt Lake City
Mark Miller Subaru, 3535 S. State St. 84115
Nate Wade Subaru, 1231 S. Main St. 84111

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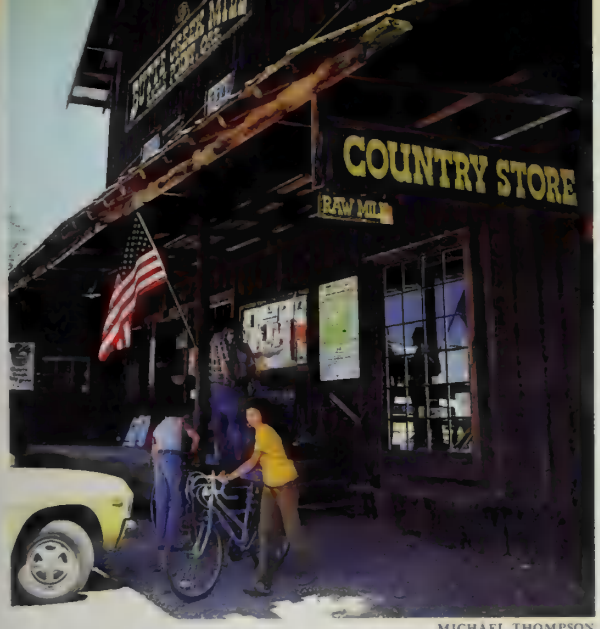
HANK KRANZLI

Piercing midsummer night, *spotlights beam on outdoor Elizabethan stage in Ashland; audience is bundled against chi*

Rogue Oregon 1981

Shakespeare and other theater running now in Ashland.
On June 27 the roosters crow in Rogue River. Go watch and listen.
Nearby the fish are biting. Later the orchards will tempt you
in Medford. So will outdoor music in Jacksonville



MICHAEL THOMPSON

Whipsawed lumber walls *of Butte Creek Mill, an operating grist mill, are landmark in Eagle Point*

Sawdust and sweat fly *as loggers compete in timber carnival held at town of Shady Cove*

LARRY EVANS

Peach picker *uses her dad for ladder at pick-your-own orchard*

Spumescent suspension: *student paddler learns how to hang his kayak in a Rogue River rapid during summer whitewater class*

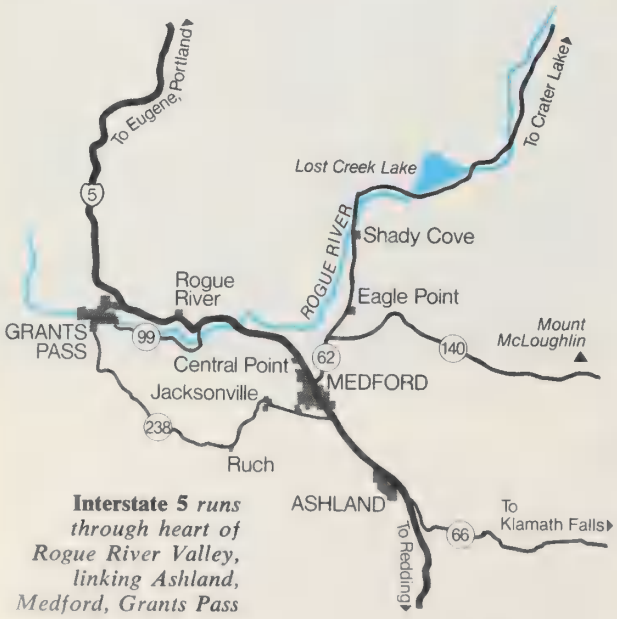
When gold fever hit southwestern Oregon in the early 1850s, prospectors poured into a valley populated by the Takelmas Indians. So aggressively were the intruders treated that they called the natives the Rogue Indians. The name also stuck to the river that tumbles from headwaters near Crater Lake, then crosses a pastoral valley, before churning through wild canyons on its way to the Pacific.

Today, the Rogue River Valley and surrounding forest territory provide one of the West's most diverse recreational environments. Consider: fighting a salmon at sunrise, then watching Shakespeare at twilight; splashing through whitewater rapids in a raft one day, then strolling the calm streets of a reborn gold rush town the next.

Whether you come here for a weekend or a week's vacation—

MICHAEL THOMPSON

Stepping out in June: *clown leads Rooster Crow Parade down main street of Rogue River, Oregon*



Interstate 5 *runs through heart of Rogue River Valley, linking Ashland, Medford, Grants Pass*

or even if the valley is your back yard—such attractions are easily sampled from June through Labor Day and beyond.

Festivities range from wonderfully polished performances of the Oregon Shakespearean Festival in Ashland and the Peter Britt Music Festival in Jacksonville to the raucous fun of the Rogue River Rooster Crow contest and parade.

Outdoor activities also range widely: angling for trout and chinook salmon; raft, kayak, and driftboat expeditions; camping and hiking in state parks and national forest land. And this is volcanic Oregon: 9,495-foot Mount McLoughlin (one of the somnolent sentinels in the Cascade chain) overlooks the valley; Crater Lake National Park is an easy drive away.

Giant piles of logs, rumbling log trucks, and the smell of sawdust remind you that you're in a timber-processing valley. And miles of neatly pruned orchards remind you that you're in one of the West's biggest fruit baskets, especially for peaches and pears. Sawmill tours and roadside fruit stands can acquaint you with these assets.

Throughout the valley, you can see the fruits of historic preservation in lovingly restored 19th-century structures.

Weather should be no bar to your activities. Valley summers are quite dry and hot. Midsummer day temperatures may climb into the 90s or even to 100°, but nights are cool (you'll be glad for a jacket), and humidity is low.

The key to enjoying it all is planning. The region's popularity, plus still somewhat limited airline connections, dictate making reservations for flights and lodging a month ahead. Our report can help you plan. All numbers given are in area code 503. (On page 62, we list Rogue River whitewater trip options.) Local chambers of commerce can provide lists of summer events, in-town motels and hotels, and rustic lodges in the area.

Access by car, plane, train

Interstate 5 cuts a broad swath through the valley; it's about a 5-hour drive from Portland, 7 hours from San Francisco. Coastal travelers on U.S. 101 can detour to the valley via U.S. 199 (it's about 85 miles from Crescent City, California, to Grants Pass).

Despite its newly enlarged airport terminal, Medford doesn't see as much passenger jet traffic as locals would like. At present, only United Airlines flies north from San Francisco to Medford (after June 12 there will be three flights every

Rooster Crow Parade in Rogue River. Outdoor music in Jacksonville. Take a picnic

n hats rode *atop these float-riders last year's Rooster Crow Parade*

Jacksonville unfurls *banner over California Street to announce music festival held during August*

Sturdy limb frames *view of the recently built Britt Pavilion and festival concertgoers*

). Air Oregon flies south into Medford from Eugene and rtland. Several firms rent cars at the airport.

ntrak's *Coast Starlight* train stops at Klamath Falls (about miles east of Ashland via State 66); you could rent a car re or take a bus. Republic Airlines serves Klamath Falls.

hland: Elizabethan Oregon

would be hard to imagine Ashland without the Oregon kespearean Festival, so benignly does it dominate this untain-rimmed town.

nset has been reporting on the festival for years. In March 79, we wrote: "The curtain rose in February on Oregon kespeare Festival's biggest gamble in its 44-year history a nonstop, eight-month repertory season in three theaters." e gamble looks good: more than 264,000 playgoers at-nded 579 performances in 1980. This season, despite infla-n's squeeze, festival sponsors hope to attract even more itors.

e 1981 repertoire includes William Shakespeare's *Twelfth Night, o Gentlemen of Verona,* and *Henry IV, Part I* (all three will performed outdoors from mid-June to early October at the izabethan Stagehouse); John O'Keeffe's *Wild Oats*, Arthur ller's *Death of a Salesman*, John Ford's *'Tis Pity She's a hore*, and Shakespeare's *Othello* (staged in the Angus Bowmer eatre); Harold Pinter's *The Birthday Party* and Athol Fugard's *e Island* in the Black Swan.

cket prices range from $5.50 to $10.50; reservations are a must ring busy August. Limited numbers of tickets may be ailable on site, but lines for these often form as early as sunrise. r a schedule and ticket order form, call or write to the akespeare Box Office, Ashland 97520; (503) 482-4331.

hind-the-scenes looks at the three theaters are offered on ckstage tours. Guided by a member of the festival company, u explore the Black Swan (the smallest theater, housed in rmer livery stable); the Bowmer Theatre (named for festival under Angus Bowmer); and the grand Elizabethan Stagehouse half-timbered, Tudor-style playhouse), where you can try on royal crowns in the prop room. Tours run on performance days at 10 A.M.; tickets cost $3 for adults, $1.50 for children under 12. For reservations, call the box office.

Shakespeare has given Ashland a larger-than-life image, but the town and festival complex are quite compact. You can often walk in minutes from your lodgings to nearby restaurants, shops, or the theaters.

Another Ashland fixture is made for walking: Lithia Park, named for the lithia water (potent-tasting stuff laced with lithium chloride) that burbles from a fountain along Ashland Creek. Dedicated in 1916, the park got a grassy face-lift last summer; more restoration is underway. Woodland Trail winds through Lithia, past shady picnic areas and duck ponds.

The Ashland Chamber of Commerce can provide help with accommodations (some 500 rooms); write or call the Chamber, 110 E. Main St., Ashland 97520; 482-3486.

Medford: lodging, log-sawing, roses

Industrious Medford is the valley's timber-processing, pear-packing center. Many visitors use the city as a base of operations, lodging here at night, then exploring afield by day. For a list of accommodations (some 1,750 rooms) and restaurants, write to the Greater Medford Visitors and Convention Bureau, 304 S. Central St., Medford 97501; or call 772-5194.

Around town, it's hard to ignore the logs and lumber stacked in sawmill yards. Two large wood-products companies offer tours. For information on self-guided tours of the Medford Corporation, call 773-7491. Boise Cascade gives guided tours of its lumber and plywood products facility: you watch head-rig saws zip through 16-foot logs and see how plywood is made; for details, call 776-6662.

You may be acquainted with two other Medford-based firms —Jackson & Perkins and Harry and David. The former mails

out millions of rose bushes each year; the latter enjoys "Fruit-of-the-Month Club" fame. The J&P display garden, 2518 S. Pacific Highway, is open daily (rose blooms should be best in June). The Bear Creek Store, 2836 S. Pacific, sells gifts and Harry and David bakery specialties (open 9 to 5:30 Monday through Saturday). Behind the store, the "Reject Fruit Stand" sells slightly blemished but otherwise fine fruits.

Jacksonville: reborn gold town

Born in the gold rush of 1852, Jacksonville discovered that gold dust doesn't necessarily engender good citizenship. One upright settler observed: "There were but few women, and most of them not angelic. The mines were rich, money was abundant, and gambling rampant . . . " Jacksonville survived.

Today, thanks to caring townsfolk, you can stroll amidst preservation on a grand scale. Much of Jacksonville is a national historic landmark; many buildings date from the 1850s and '60s. But you needn't be a history buff to enjoy a visit here.

Peter Britt Music Festival. It's named for Peter Britt, pioneer photographer-plantsman-vintner. In Britt Gardens on nights between August 7 and 22, concertgoers can lie back on blankets spread on the grass to hear classical music performed on the stage of Britt Pavilion. Two other events here will treat listeners to bluegrass and country music on July 24 to 26 and jazz in late August. For a schedule and ticket details, call or write to the Peter Britt Music Festival, Box 1124, Medford; 779-0847.

Children's Museum takes a hands-on approach to history, letting youngsters touch antiques in child-size dioramas, including a kitchen, classroom, and jail. Adjacent to the old Jackson County Courthouse, the museum is open 9 to 5 Tuesday through Saturday, noon to 5 Sunday; donations appreciated.

Pioneer Village hides behind a wooden fence off State 238. Inside, there's an impressive assemblage of relocated pioneer structures, including the old Dogtown Saloon from Edgewood, California. It's open 9:30 A.M. to 10 P.M. Wednesday through Sunday, 9:30 to 5 Monday and Tuesday; admission is $2.25 for adults, less for others. Also on the premises, the Gilded Cage Players perform old-time melodrama and olios on Fridays and Saturdays at 8:30 P.M. from June 26 to September 6 (tickets cost $4.50 for adults, $2.50 for ages 12 and under). For details, call 899-1683.

Lodging is limited to the eight-room Jacksonville Inn (built in 1863), a hotel and dinner house at 175 California Street; for rates and reservations, call 899-1900. For lunch, try the 1865 Plymale Cottage, 180 N. Oregon Street; it's open Monday through Saturday 11 to 3.

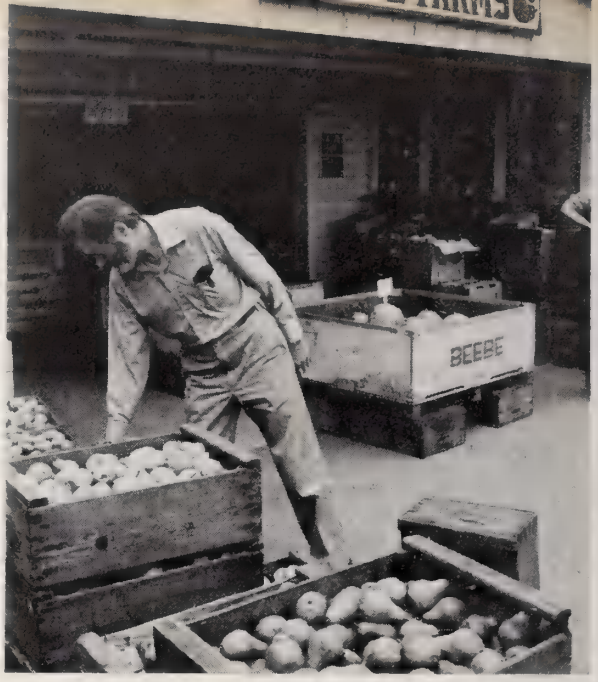
For a list of 19th-century houses you can tour, write to the Chamber of Commerce, Box 33, Jacksonville 97530.

Southwest of Jacksonville, State 238 loops into scenic Applegate River Valley. Drive 8 miles to Ruch, then left on Applegate Road to visit Valley View Vineyard (open daily from 11 to 5 in summer). You can taste and buy wines, including a "Perry" made from Seckel pears.

Rogue River: rooster crow town

On Saturday, June 27, this otherwise quiet town will wake up for a day of rooster-inspired madness. Townsfolk don rooster attire to strut in a 10 A.M. parade. For the Rooster Crow Contest, scheduled around 2 P.M., contestants bring their prize birds, often in zany cages: we saw a rooster-size home complete with swimming pool. If you own a rooster and bring a cage, you're welcome to enter the 30-minute crowing contest. Record-holder "White Lightning" cock-a-doodle-dooed 112 times in 1978. Throughout the day, vendors sell snacks; we lunched on barbecued chicken.

Rogue pears in August.
Chinook salmon through July.
Historic Jacksonville all summer



Just-picked Bartlett pears *fill lugs at Beebe Farms' roadside stand in Central Point*

Rogue River meanders *near Tou Velle State Park. Snow-capped Mount McLoughlin overlooks valley*

Three miles east of Rogue River off I-5 is Valley of the Rog State Park, with a large picnic area, shore fishing, and 1 campsites for tents and RVs. For details, call 582-1118.

Grants Pass: gateway to whitewater

The proximity of Grants Pass to put-in points for floating t 84-mile Wild and Scenic River stretch of the Rogue makes a gathering place for river runners. If you don't have time f an extended float, two operators run daily jet boat trips lasti 2 to 5 hours (cost $10 to $25) that include some good rapi Call or write to Hellgate Excursions, Box 982, Grants Pa 97526, 479-7204; or Morrison's Lodge Jet Boat Trips, 85 Galice Rd., Merlin 97532, 476-3825 or 476-3027.

The Grants Pass and Josephine County Chamber of Com merce can provide lists of accommodations and nearby attra tions, including Oregon Caves National Monument. Call write to the Chamber, Box 970, Grants Pass 97526; 476-771

Reaping the Rogue Valley harvest

While peaches are grown here in profusion, the valley is mo famous for its pears. Picking doesn't start until late Augus Bartlett comes first, then Anjou, Bosc, Comice.

Though you can pick blushing peaches at some orchard

MICHAEL THOMPSON

Pink squirrel pie *is one dessert temptation offered at Jacksonville's Plymale Cottage by owner Nancy Maxon Pierce*

ing around mid-August, fruiting pear trees are just too er to risk their branches to untrained pickers. But you can picked pears by the pound, basket, or lug at near-whole- prices from roadside stands and orchards. Check local spaper classified sections under "Food Basket." Let fresh- ed pears ripen for 5 to 10 days.

theast to the Upper Rogue

veen Medford and Union Creek, worthwhile detours lie off Crater Lake Highway (State 62); we list highlights.

Velle State Park. Close to Medford, a signed exit leads to this side park, with day-use picnic areas and a boat launch ramp.

e Creek Mill. Turn right on S. Royal Avenue to the town of e Point and Butte Creek Mill (circa 1872). Peter and Cora idall have been painstakingly restoring this water-powered mill; they process stone-ground whole-grain flour and meal ale in the mill store (open 9 to 6 daily except Sunday).

ly Cove. New pioneer-style shopfronts edging State 62 are of the town's face-lifting "Proud II" project. The Upper ue Festival and Timber Carnival will be held here June 27 and with lumberjacks competing both days starting at noon. carnival details, call 878-2702.

Rivers Fish Hatchery. A well-signed turnoff leads to the hery (open daily 8 to dusk) at the Lost Creek Dam site.

"Jack" in the boat *prompts angler's salute. Young male chinooks are called jacks*

Looking down into the holding tanks filled with whopping chinook salmon—spawners for breeding—is worth the stop. The dam backs up 3,430-acre Lost Creek Lake.

Stewart State Park. This park on Lost Creek Lake has 201 campsites (no reservations), a new boat dock, and lake fishing for rainbow trout and crappie. For details, call 560-3334.

Union Creek. Landmarks here are Union Creek Resort and Beckie's Cafe (open 6 A.M. to 9 P.M. daily; try a slice of homemade berry pie).

Rogue River Gorge. Just beyond Union Creek, a turnoff leads to an overlook where the Rogue froths through an incredibly narrow lava chute.

Crater Lake. State 62 continues to Crater Lake National Park. Its famous Rim Drive usually isn't open until late June; for information, call the park at 594-2211.

Outdoors in Rogue Oregon

"Fishingest river in the West." The Rogue earns its nickname if you judge by the numbers of anglers plying its pools on summer weekends. Chinook salmon is the prize. Best salmon fishing is mid-May through July. Summer steelhead trout angling picks up in August. Rainbow trout provide action all summer.

Local tackle shops sell bait, supplies, required licenses, and salmon/trout tags; ask about catch regulations. You can fish from shore at parks along the river, or hire a driftboat guide (a 5-hour float costs about $100, two anglers per boat); for a directory, write to the Rogue River Guides Association, Box 792, Medford 97501.

Camping in park and forest. Two state parks—Valley of the Rogue and Stewart—have 375 total sites for tent and RV campers. There's also camping in Rogue River National Forest at sites off State 62 between Prospect and Union Creek; for a campground directory, write to the U.S. Forest Service, Box 3623, Portland 97208.

Hiking, backpacking. Good trails lace nearby forest land. June is prime hiking time. Terrain is generally unintimidating, but watch out for poison oak, rattlesnakes, and wood ticks. The Forest Service can supply maps (50 cents each) for Rogue River and Siskiyou national forests. *The Wild and Scenic Rogue River* map-guide (free) covers the 40-mile Rogue River Trail—a splendid 5-day hike for experienced backpackers. The new *Upper Rogue River Recreation Trails* guide (free) covers day-hike segments of 48-mile Upper Rogue River Trail from Prospect through Union Creek. Write to the USFS (see address above).

Whitewater river running. See the report on page 62. □

Hard-to-water *slopes make up most of this ¼-acre lot. Plants have thrived on a drip system for four years*

Deck railing hides *drip hose. Emitters can easily be added or subtracted when potted plants change*

Drip targets *include escallonias, pines, juniper, ivy, roses, pansies, petunias on the bank; hibiscus, gladiolus, bird-of-paradise, impatiens by the house. Conventional sprinklers water the lawn*

All drip

Trees, shrubs, ground covers, vegetables, flowers, even containers... everything in this Southern California garden (except the lawns) is watered with drip irrigation. Payoff is better coverage with less water

An extensive drip system waters everything but two small lawns in this Southern California garden. In operation for four years, it delivers advantages owners Bob and Jan Randall of Walnut couldn't get from other watering systems.

To begin with, the Randalls used sprinklers, but wind, runoff, and deflecting shrubs spelled poor results. The change to drip brought better coverage with less waste—and offered the convenience of watering containers on the deck along with everything else.

The diagram at right shows how the system—designed by Dan Robinson and Professor Joe Hung of Cal Poly Pomona—irrigates the mixed landscape of trees, shrubs, ground covers, and annuals.

BILL ROSS

Roses and raised beds *for vegetables are watered by a separate drip line connected at control head 3; they get more frequent watering than plants on rest of slope*

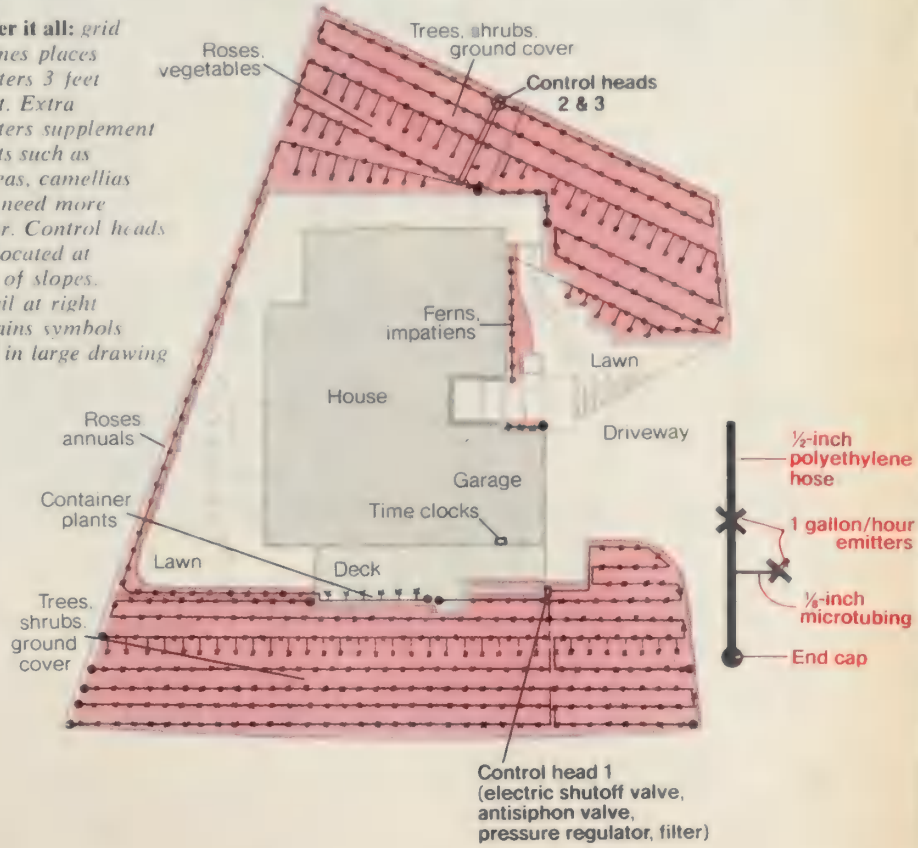
: drip emitters mark a grid pattern evenly wets whole planting areas. ere they would be visible, the hoses slightly buried for tucked under rail-, as pictured above), but in most of garden, lines run along the ground are simply hidden by trailing plants.

o inexpensive clocks operate the drip lawn sprinkler systems on separate edules. In the spring and summer, Randall sets the controls to drip-er the banks for 3 hours every third , while thirstier plants growing near house receive an hour's watering ry other day. Occasional spraying h a hose washes leaves and adds hu-dity for moisture-loving plants.

o additional notes: To meet backflow vention codes, the controls (shutoff ve, antisiphon valve, and usually the er and pressure regulator) needed to be the top of slopes—above downstream ses and emitters. To equalize water tribution on hills, lateral branch lines n parallel to the contours of the slope.

r an explanation of basic drip hard-re, see pages 117 to 124 of the May 81 *Sunset*. □

Under it all: *grid of lines places emitters 3 feet apart. Extra emitters supplement plants such as azaleas, camellias that need more water. Control heads are located at tops of slopes. Detail at right explains symbols used in large drawing*



It takes six hands *(right) to hold hose as neighborhood firewoman demonstrates water-pumping truck. Below, pint-size recruit tries out mother's gear against the spray*

COMMUNITY ACTION:

Proposition 13 keeps bringing surprises. This summer camp in Los Gatos is run by parents

Young cooks *present treats prepared for parents*

Summer school and camp are only fo memories for some youngsters th days. Reduced tax revenues have le many communities unable to afford su extras, prompting parents to try to the gap with constructive out-of-scho activities.

In Los Gatos, California, 35 paren with children between the ages of 5 a

NORMAN A. PLATE

Ready for lunch, *hikers stop near remnant of their neighborhood's rural past. Leader helps piece together history*

DAVID STUBBS

Puppet-making team *uses odds and ends for materials*

solved that problem by pooling time, ent, and kids last summer. Their idea rted as a wish—"Wouldn't it be nice have our own summer school?"—and ne to life as the Las Cumbres Neighrhood Parent Cooperative.

ch parent had a special skill or inter- to share with the 22 children. Among em were painters, hikers, potters, gardeners, dancers, tie-dyers, cooks, athletes, and even firewomen (who have their own volunteer fire department).

They divided the summer into three-week sessions, with activities on Tuesdays, Wednesdays, and Thursdays from 9:30 to 1:30. Parents donated 6 hours per session and the use of their family room or yard for a morning. In exchange, they got 30 hours of time to themselves.

Two adults, working as a team, would plan and supervise each day's program. They might coach a sport, teach an art or skill, or lead an overnight backpacking expedition. A typical week's schedule might include jazz exercises Tuesday, a first-aid demonstration Wednesday, and puppet-making Thursday, all followed by lunch and a swim in the community pool.

Materials often came from home, or their cost (which usually totaled less than $5) was shared by the group. Kids brought their own brown-bag lunches.

From planning to cleanup, children participated in all phases. They encouraged their parents to stay involved, and their enthusiasm made them unusually cooperative. Each three-week session ended with a potluck lunch prepared and served by the youngsters—an idea they came up with themselves.

Parents who originally thought it would take up too much of their time found it rewarding. As one observed, "Everything the children need for an interesting summer is right here. We have so much to share with each other—which is true no matter where you live."

The participants, young and old, gained a feeling of community achievement that should grow this summer with more neighbors and more ideas to share. □

REGINALD W. BRAN

Before, *living room was exposed to street; grass plot studded with randomly placed conifers faced the sidew*

In two years . . . piney path, sitting area, flower show . . . right outside the front door

Two years ago, Reg and Dawn Branston's front garden in Bellevue, Washington, looked the way it does in the photograph above.

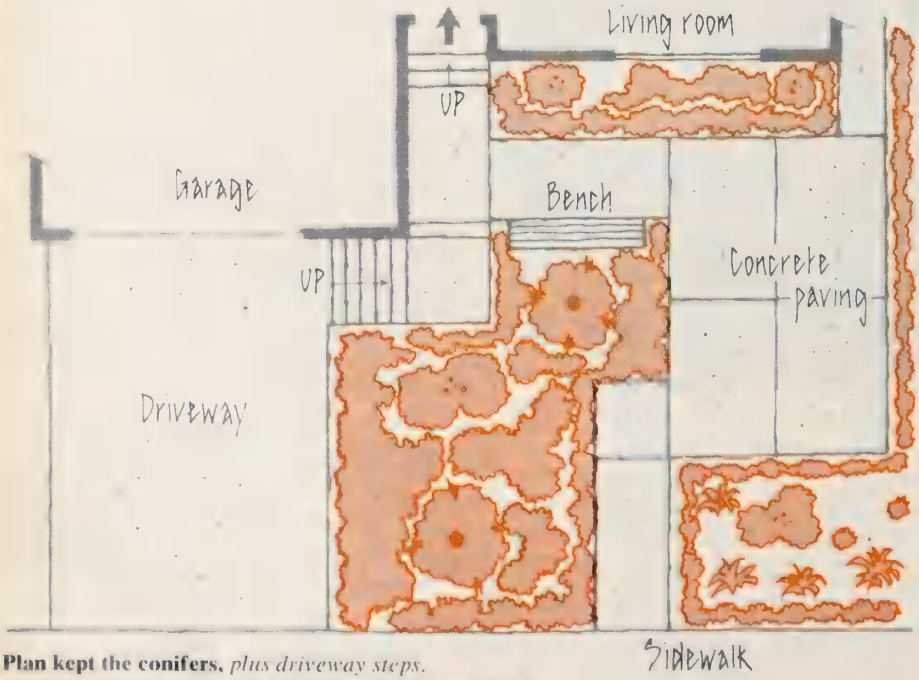
Though the house is scarcely higher than the sidewalk, you had to walk down the driveway and up some concrete steps to reach the front door. The large living room window was fully exposed to the street and to afternoon sun, and a handful of seemingly random conifers p vided neither privacy nor shade. E what the Branstons minded most was t lack of a comfortable outdoor-livi space: an east-facing deck (not show was fine for mornings but shady a chilly in the afternoon.

Landscape designer David Poot felt th the sunny front exposure was the logi place for a new sitting area. The own liked the idea, but didn't want a hea walled-in look.

The solution was a softer, living scre of plants (mostly mugho pines) that corporated an existing pine, deod cedar, and Douglas fir. And a new ent walk offers an easier, more graceful a proach to the house.

Permanent plants are still small, clumps of annuals provide color fro May through October while they fill the temporary bare spaces—a fast a effective way to hide the rawness of new or revamped garden.

In November, bulbs go in where the a nuals were and are overplanted with o namental kale for winter interest. Wh the bulbs start to flower, the kale go And when the bulbs fade, permane azaleas and rhododendrons carry t color until it's time for the summer a nuals again.



Plan kept the conifers, *plus driveway steps. New staggered entry walk brings you in at street level, widens into terrace, right-angles toward house*

GLENN CHRISTIANSEN

House disappears *behind screen of conifers modulated by new entry walk, which broadens to become paved, streetside outdoor-living area (left). Borders of blue lobelia 'Crystal Palace', 'Goldfinch' marigolds, and dwarf marguerites give summer-long color. (When planted, each gets a teaspoon of slow-release fertilizer to carry it through long bloom.) Hidden by the marigolds are white 'Gumpo' azaleas. More sun-tolerant rhododendrons, 'The Hon. Jean Marie de Montague' (red) and 'Anna Rose Whitney' (pink), are planted across house front. Vine maples offer some shade*

BOYSENBERRY
Mixed-up parentage: rasp, wild black, and tart, acid Logan
OLALLIEBERRY
From Oregon to California. Logan-Youngberry cross
RASPBERRY
Delicate, costly, all but addictive
LOGANBERRY
Two parents, black and European rasp. On color, rasp won
BLACKBERRY
Popular parent. Mixed up with three of four above

Berry picking's picking up

Selections this June promise to be the best ever. For a few days, your market may have all 5 kinds pictured. But not for long. May is the start. June the peak

ump, freshly picked berries, at their ak in June, are one of summer's glo- us delights. And this year, larger ntings and wider distribution should er Westerners a greater selection of se highly perishable fruits.

tead of one or two kinds at a time, u may be able to choose from all five the berries pictured at left and de- ibed below. Blackberries and raspber- s are historic favorites; the others— allie is the most recent—are products the search for a better berry.

ackberry . . . sweet and mild

is granddad of many varieties grows st in mild coastal and mountainous mates from Southern California (har- st in May) to the Columbia and Wil- mette valleys and western Washington ugust).

e mild sweetness of these plump, glis- ning berries is enhanced when they're mbined, in pies and cobblers, with ore tart berries or with fruits such as aches. To serve fresh, add about 1 aspoon lemon juice to each cup of ber- es and sprinkle with sugar to taste.

aspberry . . . expensive perfection

aspberries grow best in the same areas blackberries, with harvest May rough November. When picked, the erry comes free of its core (all the hers take their cores with them). This ost perishable berry is usually expen- ve; its delicate tang is marvelous un- dorned or served simply with cream.

oysenberry . . . tangy, juicy

eddish with a dusty bloom and bursting ith juice, Boysenberry is a succulent hoice alone or combined with other erries for pies, cobblers, or shortcake. ts sweet-tart flavor lends delicious tang ice cream or cereal.

Much of the Boysenberry crop grows within 150 miles of Los Angeles and ap- ears in the market by mid-May. Smaller rops from Watsonville, California, and outhern Oregon come in through June.

nming baskets *show five of mer's fresh berry treats*

If you do the picking, *you can get plump blackberries like these at bargain prices*

Loganberry . . . assertive flavor

Covered with fine hairs, the dark red Logan is up to 1¼ inches long. Its tart, assertive flavor adapts well to sherbet and jam, or can be tempered by combining it with the sweeter Olallie or blander blackberry in cobblers and pies. To enjoy raw, sprinkle with sugar and let stand 30 minutes to draw out the juices.

In California's interior valleys, harvests of both it and Olallies start in May and finish before the hot sun of July. Later harvests from the mild coastal regions of Oregon and Washington extend the season through mid-July.

Olallie . . . sweetest

Growing up to 1½ inches long, Olallie has small seeds and a firm texture. It is the sweetest of the five berries, making it ideal for eating by itself, in berry tarts, mixed with other fruits in a compote, or topped with orange-flavored custard or honey-flavored yogurt.

Bringing berries home

Choose plump, firm, and full-colored fruit; discard any overripe or moldy berries immediately. Refrigerate them, unwashed and lightly covered, until you are ready to use them.

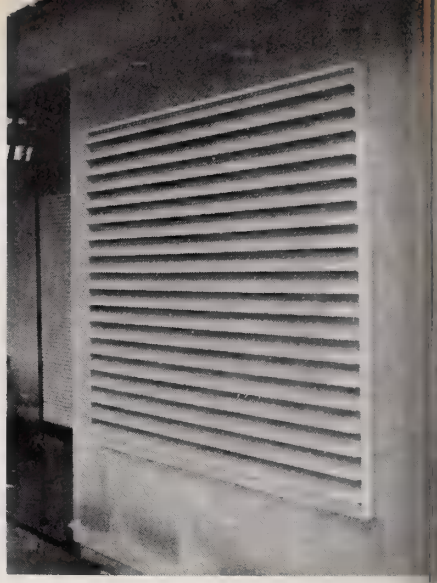
Freezing is an easy way to enjoy summer berries all year. Wash and gently dry them with paper toweling; place fruit one layer thick on baking sheets and freeze, uncovered, until solid. Package frozen berries in airtight containers or polyethylene bags. To sugar-pack, gently mix washed berries with sugar (for each quart of berries, use ¼ to ¾ cup sugar) and pack as directed above.

For tart and pie recipes using fresh berries, see page 200.

Berries in frosted glasses: *beat 3 egg whites until frothy. Fill a bowl with sugar. Invert upper inch of glass into egg white, then sugar; chill. To serve, place ½ cup berries in each glass; sprinkle with sugar to taste. Serve with light cream, sour cream, whipped cream, or honey-sweetened yogurt*

BILL ROSS

Roof overhang *reduces midday direct sun. Owner takes sun blocking a step further: wood-slat blinds stop entry of heat bounced off highly reflective concrete patio. Chart on pages 100 and 101 discusses these and other sun blocks*



European-style louvers *offer security, sun control. They adjust by crank from inside. Use where there's not much view to lose*

NORMAN A. PLAT

Young vines *will soon cover lath structure to shade west-facing window. Architect: William P. Bruder, Phoenix*

If windows are why your house is so hot...

There are ways to slow down heat gain. Blocking the sun outside, at the glass, inside

BILL ROSS

utdoor pull-down blinds, *long popular in Europe, are increasingly available here. You work them from inside or out, by ank, belt, or motor. Aluminum type at left has tiny slits for light, ventilation. At right, cutaway section shows sulating air chambers: close the blind loosely so holes let air and light through, or tightly as a solid insulating and security screen*

berglass shade screen, *going onto south-facing windows and doors, will dramatically cut glare and heat gain inside, aking child's room (right) more comfortable. You can convert aluminum-frame insect screens (center): pull out the old screen and use heeled tool and new plastic spline to install sun screening in same frame. Well-stocked home improvement centers sell the supplies*

is summer, before you turn on your conditioner—or melt—take a good ok at your windows; they may be the ason your house is so hot. The sun's diation directly penetrating the glass r reflecting off another surface and rough the glass) turns the house into lar oven, desirable in cooler weather, st the opposite in summer.

here are ways to control this heat gain. it climate, prevailing winds, views, ex- ing vegetation, and house orientation d style are all important factors in aling with windows and sun, so each use will have different potential solu- ons. In fact, similar-size windows on e same house may require quite dif- rent treatments to lessen the heat gain.

this country, the sun rarely strikes north-facing window directly, so unless heat is bouncing off another surface, radiation-control measures should be concentrated on south, east, and west.

Your first defense: keeping the sun off the windows altogether

Nature can provide an effective radiation barrier in the form of trees, vines, and shrubs. A deciduous tree on a south exposure can shade not only the window, but the house's walls, roof, and the surrounding area that might reflect or—in the case of paved areas—reradiate built-up heat. When leaves are gone, the sun can again do its best to heat that area.

Other shading measures include fast-growing vines over a window; awnings (which can have the advantage of being removable in winter); and vertical or horizontal shade structures that might incorporate vegetation.

Roof overhangs designed to permit the low winter sun to strike windows and block the summer sun's rays are effective on southern exposures, but are not often easy to add to an existing house, and are not as practical when the sun is low in the east or west.

Your next line of defense: immediately outside the window

Shades, screening, and exterior blinds or shutters can partially or totally block the sun. Their disadvantages are that they can block views, cut out more light than you might want, and hamper the operation of ventilating windows.

If the sun strikes the glass

You can limit its impact significantly with reflective glass or films (either on a

Window sun blocks... our chart lists five outdoor methods, two on glass, three indoor

storm window or primary window). Some films are just tinted, but most of them contain reflective metal particles which also create a mirrored appearance on the brighter side.

Inside the glass

Blinds, shades, or curtains can reflect some heat back outside if they have a reflective backing. These treatments have the advantage of being easily adjustable from inside.

Other ways heat can enter

As the air temperature rises outside, heat can also enter your house by conduction through uninsulated windows and window frames. Stopping this source of heat gain (or loss in the winter or at night) requires double glazing, storm windows, or window coverups. As a rule, radiation blocks that create a dead-air space close to the glass are the most effective.

Heat can also be gained and lost through convection (moving air). Some operable windows should remain unobstructed to vent heat and collect cooling breezes.

And remember: any fixed window treatment that intercepts the sun in winter will aggravate your heating problems—especially in colder climates. □

To apply reflective film *(already on right panel), spray adhesive on glass, position film, trim, smooth with squeegee, let dry*

10 ways to go... and how they compare	1 Trees, shrubs vines	2 Awnings, shade structures, roof overhangs	3 Outdoor louvers	4 European outdoor blinds
How much does it cut radiated heat gain?	Almost totally if you plant a forest. Leaves may not be out for early- or late-season heat	Up to 95%. Fixed above-window structures not as effective when sun is low in sky	Up to 80%. Horizontal best on south. Vertical best on east, west	Up to 90%
View and daylighting	Can block or enhance views, light; view and light change with season	Clear view out and down, not up. Light-color underside of awning will bounce daylight into room; otherwise daylighting may be cut	View is striped. Horizontals reduce view up and out. Verticals narrow peripheral vision. Control daylighting with adjustable slats	Raised, no obstruction. Lowered, partial to total blackout
Ventilation?	Could slow cooling breezes	Awnings may restrict outward-opening windows. Overhangs, awnings protect from rain, let windows stay open	No change. Can't use with outward-opening windows. Horizontal louvers keep rain out of open window	Air can move through slits in slats, or holes between solid slats
Cost? (per square foot, unless noted)	Depends on size, species; annual vines can be inexpensive	Too many variables to estimate	Around $10 and up	Hollow plastic and aluminum: $10 to $15
Pros and cons	Most take time to establish, require care and grooming	Fixed shades can inhibit winter heating. Structures can be good do-yourself projects	Permanent. Good for privacy, security. Bad for fire escape. Can inhibit winter heating. Closed louvers buffer noise	Permanent, but can be adjusted during the day. Popular for security, to deaden outdoor noise. Good for privacy

BILL ROSS

w way with Venetian blinds: *several manufacturers ı them between double glazing, as in this casement. adjust slat angle, turn knob in window frame*

See-through accordion shade *of aluminized fabric takes tough stand against sun's rays. This is one of best ways to cut heat gain and still retain view*

5 Woven sun screening	6 Film on glass	7 Reflective glass	8 Venetian blinds	9 Indoor shades	10 Curtains, drapes
45% to 85% depending on weave and color	20% to 50% if film is reflective, 10% to 20% if just tinted	Up to 80%	Wide range: from 20% to 70%. Be sure light-color reflective surface is outward. Can use vertical-slat blinds on east, west	Reflective film: up to 70%. Aluminized fabric: up to 65%. Standard white opaque: up to 50%. Darker colors less effective	Aluminized fabric liner reflects heat best. Second-best: tight-weave white
Fiberglass strands grouped in bands give more surface to absorb, dissipate solar gain. Result: daylighting reduced to 80%; view can be lost in direct sun	View out: as if your house were wearing sunglasses. May substantially reduce daylighting	Daylighting is reduced up to 80%	View, daylighting depend on slat angle. Curved, light-color slats will bounce light to ceiling and into room interior	Film: Same as for *Film on glass*. Aluminized fabric: soft-focus view, cuts daylighting up to 70%. Opaque shade: no view, no daylighting	View and daylighting depend on opacity
Outside-mounted screens work on all but outward-opening windows	No change. Does not restrict openable windows	No change except with storm window addition	Little change. Can't use with inward-opening windows if hung indoors	Hampers air circulation. Awkward with inward-opening windows	Loose weaves let breezes through. Open window can vent heat blocked by drapes
Do-it-yourself (see page 99); $1.25 to $2. Pro installation: $3.50 to $7	Do-it-yourself: 70 cents to $1.25 (can be difficult to handle, especially for large windows). Pro installation: $2.50 to $6	As storm window: $6.50 to $8 As primary window: $7 to $15	Aluminum, horizontal or vertical: $3 and up. Between double glazing: $4 to $5 (sold as unit)	Film: $2.50. Aluminized fabric: $5.30. Standard roller shade: 50 cents to $1.10	$2 and up
Gives some daytime privacy. Cuts glare. Easy to remove in winter. Also available as outdoor roll-up shades	Like one-way mirror: good for daytime privacy. Increases shatter resistance. Cuts glare. Clean with care. Seasonal removal can be tough task	Like one-way mirror: you get daytime privacy, but you're on display at night. Greatly reduces glare. Permanent; storms can be installed seasonally. Can inhibit winter heating	Permanent or seasonal; adjust during the day. Obvious aid to privacy	Permanent or seasonal; adjust during the day. Only opaque or translucent gives night privacy	Adjust during the day; owner action is crucial. Prevents glare. May give privacy. Heavy drapes cut noise

"We are all crazy and we all like to cook"

Enough reasons for a river run picnic

Mighty pull of the paddle *steers floating picnickers down the Yakima. Fleet regroups at noon for a splendid communal meal*

Well fed, *Mud Slough Yacht Club members unload after a day on the San Joaquin*

Two fleets are afloat on these pages. One cruises the San Joaquin River in central California, the other the Yakima in central Washington. As flotillas go, these two inspire more chortles than dread; no doubt Lord Nelson would have laughed them out of the water.

But each summer these boats and rafts and kayaks provide fine means for two sets of friends to sun, swim, celebrate. And eat: the food served on both rivers' banks, though easily made ahead of time, is tasty enough to please the most epicurean admiral.

One of these floatable feasts got started when Noel Benson of Gustine, California, received a two-person raft for Christmas. Before long, she was sailing from nearby Mud Slough into the San Joaquin River. Before much longer, a few friends had joined her. Today, 10 years later, the annual regatta of the Mud Slough Yacht Club includes three dozen or so people who, Mrs. Benson says, "are all crazy and all like to cook." The families that ply the Yakima were united by a similar love for rivers and for food. Led by Don Wise of Ellensburg, they've floated at least once a month for the last 10 years—including one February when they had to chop a hole in the river's icy roof, briefly set raft in the chill water, and call it a day.

Such wintertime determination may be beyond most people. But this summer, anyone with access to a river or a lake and to dependable buoyant craft might want to follow our floaters' lead.

To be sure, such parties require organization. "It takes a great deal of planning beforehand," says Mrs. Benson. "Everybody is assigned work—real or imaginary." Real work includes herding boats—making sure that all the craft stay more or less together; imaginary work includes alligator-watching—seldom needed on the San Joaquin.

The Wises and Bensons start by scouting possible stretches of rivers to float, making sure that legal access exists at both ends of the trip and at a picnic spot midway, and that river flows match the group's skills as navigators and pilots. Most of the Yakima floaters have taken courses at a local college in canoeing and river piloting; such help is almost essential unless you plan to cruise bathtub-placid water.

With river scouted, food fixed, the party assembled, boats and other necessities (sun-tan lotion, mosquito repellent, and —important—life jackets) loaded, and cars dropped at the final pickup point, the trip begins. By noon, the flotilla reaches its picnic site. There those assigned to lunch duty set out food for buffet-style dining.

The meals served are surprisingly adventurous. "You're only limited by your imagination," says Don Wise. Weight, so long as it is evenly distributed, isn't a great problem: more important is that the

DAVID STUBBS

Custom-made serving board *stretches across raft, bringing lunch within easy reach of Ellensburg floaters*

ood be well packed in waterproof con-
iners (polyethylene cases, water-repel-
nt nylon pouches, even inexpensive zip-
ock kitchen and trash bags, which can
ouble as garbage receptacles at trip's
nd) that are in turn firmly wedged or
ed into the boat. Glassware demands
urther padding and attention. (The
Vises have added a useful accessory to
heir raft—a specially designed serving
oard that fits across one of the seats.)

Vith inspiration from the Wises and
Bensons, we've designed an unusual and
ppetizing menu that transports easily
ownstream (or to any favorite picnic
ite). Our meal for six to eight includes
delicately seasoned chicken liver pâté,
hilled melon soup with strawberries,
erb-broiled chicken, a tangy dip to ac-
ompany cooked artichokes, and lus-
ious date brownies for dessert. All
lishes can be made at least a day ahead,
hen chilled until you are ready to pack.
For recipes, turn to page 180. □

Thirst-quenching *citrus-and-cantaloupe soup is chilled with frozen strawberries. Use it as appetizer or dessert*

All-vegetable main dishes...one is on skewers, the other's a zesty pizza

These are standouts in new vegetarian book

If you cook meatless meals a few times a week—or as a steady diet—you need a variety of good recipes to sustain your interest.

We think vegetarian dishes should give stunning results with commonly available ingredients and a minimum of fuss. That's the goal of a new *Sunset* book, *Menus & Recipes for Vegetarian Cooking* (Lane Publishing Co., Menlo Park, Calif., 1981; $3.95).

Containing more than 185 recipes, the book offers an enticing array of dishes drawn from the world's great cuisines. Flavor and freshness are at the heart of successful vegetarian cooking; these two entrées, taken from the book, capitalize on summer's fresh vegetable harvest.

Vegetable Kebabs

- 1 small unpeeled eggplant (about ¾ lb.), cut into 2-inch cubes
- 2 large carrots, cut into ½-inch slices
- About 1 dozen small, thin-skinned potatoes (2 inches in diameter)
- 3 medium-size zucchini, cut crosswise into 1-inch slices
- 2 small red or green bell peppers, seeded and cut into 1-inch squares
- 1 large onion, cut into wedges and layers separated
- About 16 whole large mushrooms
- Herb marinade (recipe follows)
- Salt

Cook eggplant in 1 inch boiling water for 3 minutes; drain. Cook carrots in boiling water until tender-crisp (about 6 minutes); drain. Cook unpeeled potatoes in boiling water just until tender (about 20 minutes); drain and cut in half.

Place eggplant, carrots, potatoes, zucchini, bell peppers, onion, and mushrooms in a plastic bag. Prepare herb marinade and pour it over vegetables. Seal the bag and refrigerate for 2 hours or until the next day.

Drain and reserve marinade from vegetables. Onto 8 sturdy metal skewers, alternately thread vegetables. Place on a lightly greased grill 4 to 6 inches above a solid bed of low-glowing coals. Cook, turning often and basting with reserved marinade, for 15 to 20 minutes or until vegetables are tender. Sprinkle lightly with salt before serving. Makes 4 servings. *Per serving: 12 grams protein, 71 grams carbohydrate, no cholesterol, 385 calories.*

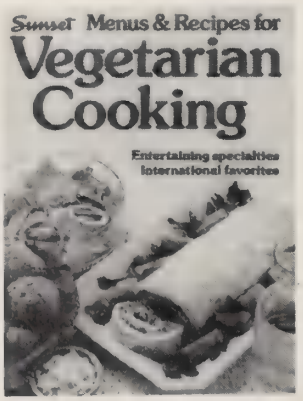
Herb marinade. In a bowl, combine ¾ cup salad oil; ¼ cup white wine vinegar; 2 cloves garlic (minced or pressed); 1 teaspoon *each* Dijon mustard, dry basil, and oregano leaves; ½ teaspoon *each* marjoram leaves and dry rosemary; and ¼ teaspoon pepper.

Whole-wheat Zucchini Pizza

- Whole-wheat crust (recipe follows)
- Tomato sauce (recipe follows)
- 2 medium-size zucchini, thinly sliced
- ½ green or red bell pepper, seeded and thinly sliced
- 4 green onions (including tops), thinly sliced
- 1 can (2¼ oz.) sliced ripe olives
- 1 can (14 oz.) artichoke hearts, drained and quartered
- 3 cups (12 oz.) shredded jack cheese
- ¼ cup grated Parmesan cheese

Prepare the whole-wheat crust; while it rises, prepare tomato sauce. To assemble pizza, spread tomato sauce over crust. Arrange zucchini, bell pepper, onions, olives, and artichokes over sauce. Sprinkle jack and Parmesan cheese over all.

Bake in a 450° oven for 12 to 15 minutes or until cheese melts. Cut hot pizza in wedges to serve. Makes 2 pizzas; each serves 6. *Per serving: 22 grams protein, 50 grams carbohydrate, 44 milligrams cholesterol, 464 calories.*



Sunset's new book *includes nutrition information for each recipe*

For summer barbecues, *herb-marinated vegetable sk with nut- and fruit-laced pocket bread, and green*

You don't miss *the m this zesty pizza, rich vegetables, olives, and c piled on whole-wheat*

Whole-wheat crust. In a large bowl, dissolve 1 package active dry yeast in 1½ cups warm water (about 110°). Add 1 tablespoons salad oil; 1 teaspoon *each* salt, sugar, dry basil, and oregano leaves; ¼ cup wheat germ; and 1½ cups all-purpose flour. Beat until smooth (about 3 minutes if using electric mixer). Using a heavy-duty mixer or wooden spoon, beat in 1½ cups whole-wheat flour until dough holds together.

Turn out onto a lightly floured board and knead until dough is smooth and elastic (about 5 minutes), adding more flour if needed. Turn over in a greased bowl, cover, and let rise in a warm place until doubled, about 45 minutes.

Punch dough down and divide in half. On a lightly floured board, roll out each half to form a 14-inch circle, then transfer each circle onto a greased 14-inch pizza pan. One at a time, bake on next-to-bottom rack of a 450° oven for about 7 minutes or just until bottom of crust starts to brown. During baking, watch carefully and prick any bubbles that form. Remove from oven.

Tomato sauce. In a wide frying pan over medium heat, cook 1 large onion (chopped) in 2 tablespoons olive oil or salad oil until soft. Stir in 1 can (15 oz.) tomato sauce, 1 can (6 oz.) tomato paste, ½ cup red wine, 1 teaspoon *each* oregano leaves and dry basil, and ½ teaspoon salt. Simmer, uncovered, for 10 minutes. □

1· Cabin without walls

On about 400 square feet of covered decking, there's room for picnic gatherings like this or for rolling out sleeping bags. Fireplace is focal point; table is built in

MICHAEL THOMPSON

Simple retreats from workaday pressures, getting-away places allow their owners to unwind and enjoy the outdoors with a minimum of fuss. On these five pages, we show three such havens.

More than tents but less than cabins, they are superbly suited to informal lazybones vacation living. All have a close-to-nature feeling: while they provide shelter from sun or rain, they are still wide open to forests, meadows, or sea.

The poolside shelter is an outpost of a vacation house, while both the cabin without walls and the tent pavilion are used like cabins. Because they have no utilities, cooking is kept to a minimum and meals are usually picnics. Beds are sleeping bags tossed out on the deck. Furniture is limited to sturdy built-ins or pillows brought at each visit, so there's little worry about leaving the shelters unattended.

Structures like the tent and the cabin without walls may be subject to different building and zoning regulations than apply to more standard vacation cabins. What those regulations are depends on where the property is: each county has its own codes and zoning laws. For a sampling of how they're interpreted, see page 120.

Four-season cabin without walls

When the Robert E. Steele family of Corvallis, Oregon, wants to get out of town, they need only hike or drive 5 miles to reach this retreat. They call it a picnic shelter because it's close enough

Getting-away places

Three interesting ones. 1 · Oregon forest camp is just roof, deck-floor, fire. 2 · California swim-park is all by itself but only 150 feet from house. 3 · On someone's own coast land, or elsewhere, a portable tent pavilion

NORMAN A. PLATE

2· Shady gazebo

This getaway spot seems isolated, but it's only about 150 feet from the house. Raised platforms make aboveground circular pool—already there—seem more settled into site

3· Tent pavilion

Machine-stitched of nylon taffeta by the owner, it fits on circular deck during family vacations. Tent panels can be unzipped and tied back to expose views and let cooling breezes pass through

O PRATINI

1 · They call it a "picnic shelter." We call it their forest camp

Deck extension *(right) makes a sunny porch; decks, steps are benches. Inside (below) fire is started for cooking late afternoon meal with supplies brought from home, stored on shelves*

MICHAEL THOMPSON

to go to for lunch, but in fact it's used for suppers on long, balmy summer evenings and for overnighting on weekends.

The structure is intended for four-season use. The roof wards off the rain that can fall almost anytime in the Northwest, and the raised floors keep everyone above the damp ground. A giant stone fireplace, the focal point of the structure, provides warmth and has a metal grate and crane for heating and cooking certain foods.

There is no electricity; lamps are brought from home for nighttime use. Water comes from two 50-gallon oak barrels set under the eaves; they catch and hold rainwater from the roof and gravity-feed it to a stainless steel sink set into a work counter (see photograph at right). Under the counter is open-shelf storage, but for security everything is removed when the family packs up.

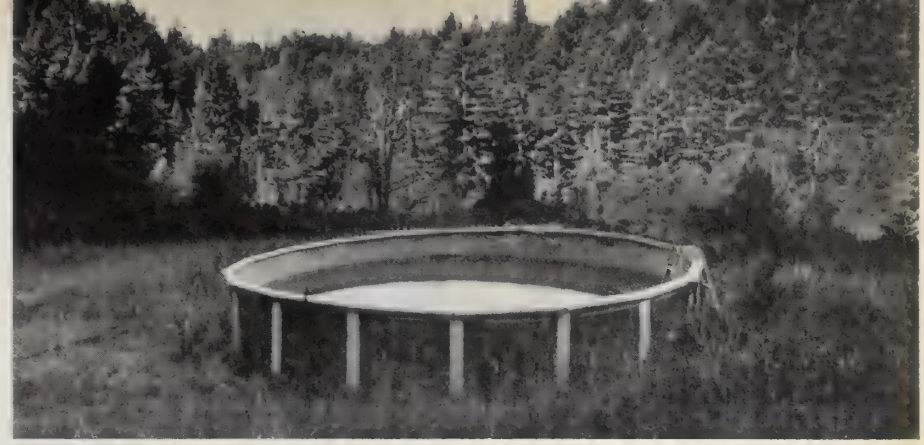
The structure, designed and built by Paul C. Stangeland of Structural Arts, floats above the ground so that none of the existing slope was disturbed. It is supported by pressure-treated posts set in concrete. Cedar 2 by 6's on 2-by-10 joists form the two-level deck. The 4- by 7-foot picnic table you see in the color photograph on page 106 is built in—its legs of 4 by 4's are blocked between the joists. The fireplace was designed and built by G. M. Kwast using river rock hand-picked by the owners.

Pool platform 150 feet from home

This getaway spot is even closer to home than the picnic shelter shown above—about 150 feet! The location, in a wood-fringed meadow west of Sebastopol, California, was determined by an above-

Catchment barrel *is one of two that collect water for dishwashing. Drain is connected to sump*

2 · They started with just a big, lonely, aboveground pool



RICHARD DAWSON

Plopped into a meadow, *aboveground pool contained several fish someone was trying to grow to eating size. Fish were returned to a nearby stream when pool was refurbished*

Unpeeled *redwood saplings were nailed into the four sections of gazebo roof*

ground pool left by the previous owner. Architect Thomas Higley, one of the three owners of the property, decided it was easier to build decks and sitting areas around the pool than to move the pool closer to the house. The result: a relaxing spot removed from the house and unfettered by domestic trappings.

The pool, 24 feet in diameter, was drained, cleaned, leveled, and refilled. Woven reed screening fitted around the outside hides its bright blue metallic skin. (A new pump and filter were also installed.)

The platforms are designed to make the pool seem lower and more settled into the site. A 4- by 8-foot walkway section steps up to the largest platform, made of four 8-foot modules. From here you step up again to an 8- by 12-foot section with an 8- by 8-foot gazebo at one end. Decking is all redwood 2 by 6's on a frame of Douglas fir. Vertical supports are sections of peeler logs set in concrete; they extend above the platforms to delineate the various shapes and are occasionally used as stools.

The gazebo's peaked roof is covered lath-like with 1- to 2-inch-diameter redwood saplings found on the property and cut to length with a pruning saw. Direct nailing proved to be difficult because the saplings rejected the nails, so nail holes were first made with a drill. At left you see the last of the roof going into place.

Tent on a deck: the $1,000 beach house pictured on our cover

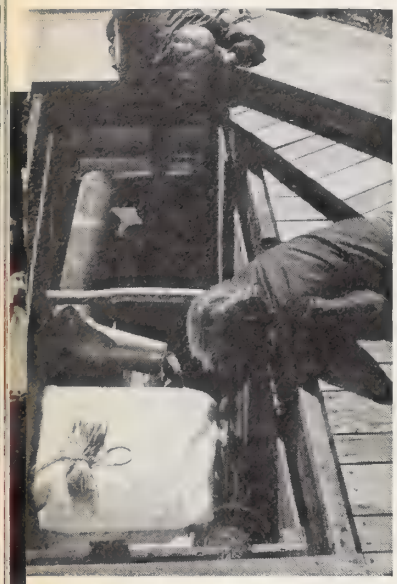
When Ed and Shirley Burger built this deck-tent about five years ago, they dubbed it their "$1,000 beach house." Because their vacation property is a long day's drive from home, they didn't want the worries of owning a cabin, yet they

A lazybones *place to take a dip, sunbathe, sip cool wine. When guests go home, the owners can settle on a bench in the gazebo and read; to keep out the sun, they lower one of the bamboo blinds on the sunny sides*

NORMAN A. PLATE

3. Circular deck with a beautiful tent on top

Nestled *between wind-blocking hills, seaside vacation place is just a deck when not in use*



Center *of deck lifts off for access to tent, stakes, and stove stored in locking fiberglassed box below*

Elevated *1 foot on four pipes, deck center becomes a table. Tent-draped center pole goes up next. Ropes become taut when stakes on end of ropes are dropped into permanent tubes in ground*

REMO PRATINI

wanted something more finished than a camp tent.

The deck—14 feet in diameter—is constructed of Douglas fir 2 by 6's and 2 by 4's in random pattern; it sits on five beams supported by 10 precast concrete piers. A 4- by 8-foot fiberglass-covered plywood box sits below deck center in a trench dug before the deck was built; it stores tent, stakes, and stove.

To make the tent, Mrs. Burger bought nylon taffeta from a sailmaker; skylights are of plastic used to make windows in convertible automobiles. The center pole is a post from a salvage yard extended with a length of plastic pipe. Six-foot side poles fit into holes drilled around the deck edges. Brass rods in the tops fit into grommet holes in the tent, and the guy ropes are tied to them.

For some protection from coastal winds, the Burgers tied 8-inch spikes to guy rope ends; these slip into sections of ¾-inch pipe stuck into the ground around the deck, about 6 feet out.

Cooking is done on a small wood-burning stove; outside the tent, its flue hooks up to an asbestos-cement pipe that serves as a chimney. The Burgers bring a portable closed-system toilet to the site.

For a different use of a tent like this, see page 149. □

Tent panels *zip closed for privacy or to keep out the wind. Support poles fit into holes around deck edges*

One company is lighting the way to lower cost homeowners insurance.

Everyone who owns a home needs homeowners insurance. But no one wants to pay any more than necessary.

We understand. And we're working on ways to keep your costs down. In most cases, we'll give you a discount if you insure your home to its full replacement value.

Do you have a smoke/heat detection system? Certain types can earn you a discount. So can our New Home Credit. And our Inflation Protection Credit. (Most of these credits are available in most states. Call your Liberty Mutual representative to see if you qualify.)

Look into our homeowners coverage today. It could brighten things considerably for you.

LIBERTY MUTUAL

Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Liberty Life Assurance Company of Boston. Home Office: Boston. © 1981.

NORMAN A. PLATE

With doors swung wide, *the breakfast room becomes an open-air pavilion. Bench echoes the room's perimeter*

The hexagon game . . . room and deck get together

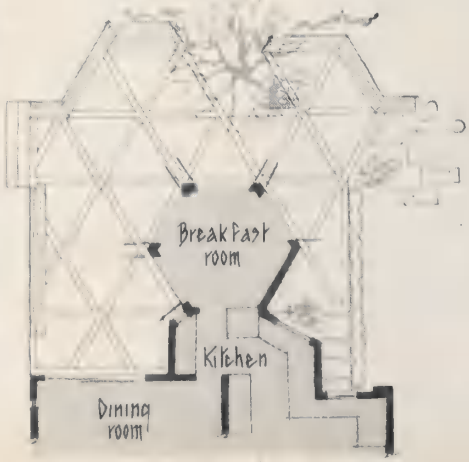
The geometric rhythm of a hexagon is at work in this Kentfield, California, remodel. It starts with the hexagonal breakfast room and continues outside with the surrounding deck, where the hexagon fragments into equilateral triangles of redwood decking.

The 12-foot-wide breakfast room projects like a peninsula from the rectangular shape of the house. French doors on four of the five exterior walls open to the outside and create a pavilion for entertaining.

To complete the sense of openness, a six-sided pitched roof of glass crowns the room. A canopy of carefully pruned live oaks filters overhead sunlight, but in case of heat buildup, there's an electrically operated vent at the roof's apex.

San Francisco architect David Jeremiah Hurley, who designed the original house in 1963, did the remodel for owners Kathryn and Bob Goldsmith. □

Transparency *of the glass-enclosed space is apparent in wide-angled view at left. Plan below shows how patterns of room and deck integrate*



Gridwork *of darker-stained redwood 2 by 6's was in-filled with 2 by 4's*

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Six doors open *to show built-in wide and tall storage above, cubbyholes in middle, coat hooks and boot space down below*

Closed up, *back-door locker blends in with rest of kitchen cabinetry*

Sports locker by kitchen door

When thirsty athletes come trooping in after a little back-yard one-on-one, they can stow their gear right in the kitchen while they get a drink. A special section of the 12-foot-long storage wall is just for the sports paraphernalia that comes and goes with Jennifer and Hugh Hatcher's 10- and 14-year-old boys.

The maple cabinets throughout the remodeled kitchen have a minimum of surface detailing: the doors pivot on recessed pin hinges, and only contemporary wire handles interrupt the smooth surfaces.

Remodel design was by Jeff Burleson of Cabell Childress Architects, Denver. □

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Opening in roof *above plants is screened to let rain in, keep insects out*

Brick-paved *front walk and garden extend into entrance hall, lush with greenery*

Garden walk to the entry

The front door of this house in Hawaii, on the windward side of Oahu near Kaneohe, opens to an entrance hall garden of lush tropical foliage plants.

Above the plants, an open roof allows daylight to flood the garden. Window screening covers the opening, allowing fresh air and rain in to refresh the plants. The screen also keeps out flying insects, leaf debris, and any curious small intruders.

All of the plants grow directly in the ground. The brick-paved concrete floor edging the garden and the concrete-block wall finished with stucco behind it are impervious to moisture. White walls reflect light into the garden, another plus for the tropical plants. Along one wall and beside the front door, screened louvers below large fixed panes of glass let air circulate freely.

The architect was Robert M. Fox of Robert M. Fox Associates, Honolulu. Owners are Marvin Devereux and William Prange. □

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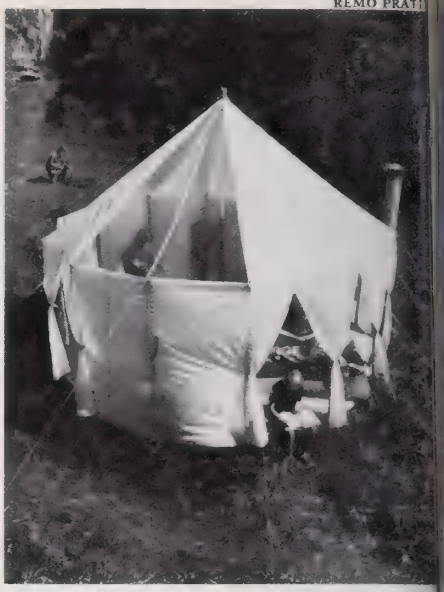
REMO PRATT



Tent on a platform *is legal summer house in its isolated county, not always elsewhere*

Can you get approval for a getting-away place?

We asked officials in 21 counties scattered around the West whether local zoning or building codes would allow a vacation place—like the tent pavilion and cabin without walls on pages 106 to 110—to be put up on private property within their counties.

Answers ranged from "Yes, with a permit" to "We discourage it" to "Absolutely not!"

Their reactions were based on local zoning laws, health considerations, and the interpretations of building codes.

Zoning laws. One predominantly rural county permitted the cover-picture tent on privately owned property. No problem. But in an adjacent county, the same tent-on-deck would be illegal. "Even if the tent is on private land on a permanent deck," says one planning official, "it's camping. And camping is permitted only in campgrounds in this county."

A planning official in another county is more lenient: "If the tent-deck is lower than 30 inches off the ground, it falls under our Travel Trailer category. The law here allows people to camp in a trailer on their own land for up to six months with a camping permit."

In one county, problems with limited-use shelters, boathouses, and sheds prompted recent passage of a law prohibiting camping on private vacation property. "People will try to live in anything," the

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t the edge of your imagination, a journey down life's highway takes a surprising turn. The San Raphael Water-Guard, a grace-
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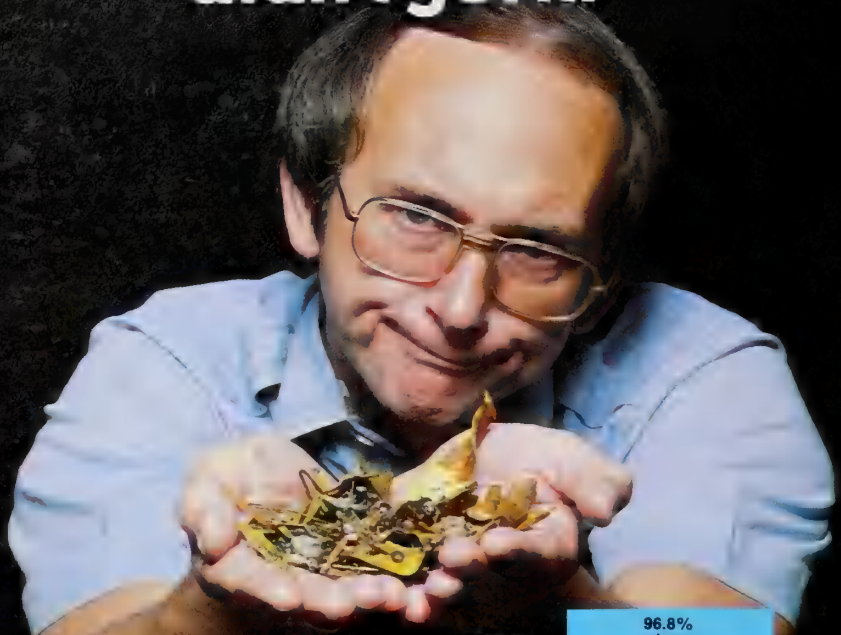
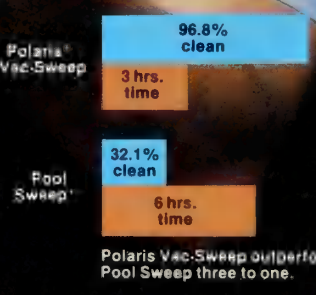
I've had it!

Because my Pool Sweep® didn't get it!



Bruce Roberts didn't read the test report before he bought his automatic pool cleaner. This pile of debris is what his Pool Sweep® failed to pick up. Bruce says, "Any activity in the pool would knock debris back into the pool."



Polaris Vac-Sweep outperforms Pool Sweep three to one.

After two months, Bruce had had it, and replaced his old-fashioned pool sweeper with Polaris Vac-Sweep®, the only automatic pool cleaner that both *vacuums* the floor and *sweeps* the walls. In three hours or less the Polaris Vac-Sweep cleans the pool with a significant savings in time, energy and nerves. Polaris Vac-Sweep vacuums large debris into a self-contained bag; sand and silt into a disposable bag. And it operates under Bruce's energy-conserving pool cover.

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planning official told us. "They camp their sheds, improve them, and the ne thing you know, they're living in them."

Health laws. In most counties, the ma concern with limited-use shelters is sa tation. Pit privies and outhouses a against the law in many places; in other they're okay. One environmental heal officer in a predominantly rural coun told us: "We might consider permittin a privy in a remote desert area—in mining camp, for example—if grou water there is not close to the surface."

In another county—where vacatio hunting, and camp cabins are restricte to more isolated locations—standa plumbing is required if water is avai able. The health department here r quires percolation and other tests befo placement of sanitation facilities can b approved.

Some counties will allow the use of sel contained chemical toilets, like those i recreational vehicles, without a permi In others, chemical toilets require a pe mit from the health department.

Provision for potable running water an for proper garbage and refuse dispos or removal are also required by man health departments.

Building code requirements. Generally the Uniform Building Code does no address such structures as these. Bu different counties have their own inter pretations. Said one county planner building inspector: "We could probabl issue a permit for the cabin withou walls under the classification of a shad structure if it met certain structural re quirements. For example, the roof mus be capable of carrying at least a 40 pound load in snow country, and th fireplace must be seismically sound."

A building inspector in another count is more emphatically against such struc tures: "Anything with a roof on it i considered a permanent residence—n matter how long it's used—and, as such is subject to the usual building codes."

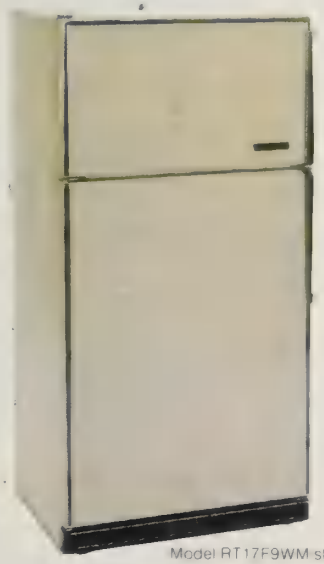
Because of the deck under it, the tent i considered a permanent structure i many counties.

In addition, fire departments may re quire that the tent be constructed of fire retardant materials, like the nylon taffet tent on our cover. In dry, fire-pron places, fire officials will probably als want to make sure that the area imme diately surrounding the shelter is cleare of brush, and that proper provisions a made for any fire use.

Before considering a getting-away place first determine the zoning laws there Check with a zoning or planning official then with an environmental health offi cer and a building inspector; they're listed in the white pages under County Offices.

Why Kathy Werner is a Gibson Girl:

Because she's likely to spend 46,875 hours of her life working in the kitchen.



Model RT17F9WM shown

46,875 hours. And she wants to make those hours as pleasant as possible for herself.

That's why she's sold on all the convenience and energy-saving features of this 1981 Gibson refrigerator.

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Of course, Kathy wants her kitchen to look good, too. Which is why she likes Gibson's handsome picture frame door trim. And why she's glad Gibson refrigerators come in a variety of exciting Nature Shades, including the popular new almond.

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With features like these, it's easy to see why Kathy Werner is a Gibson Girl. If you want to do something about trimming those kitchen hours in your future, maybe you should be a Gibson Girl, too.

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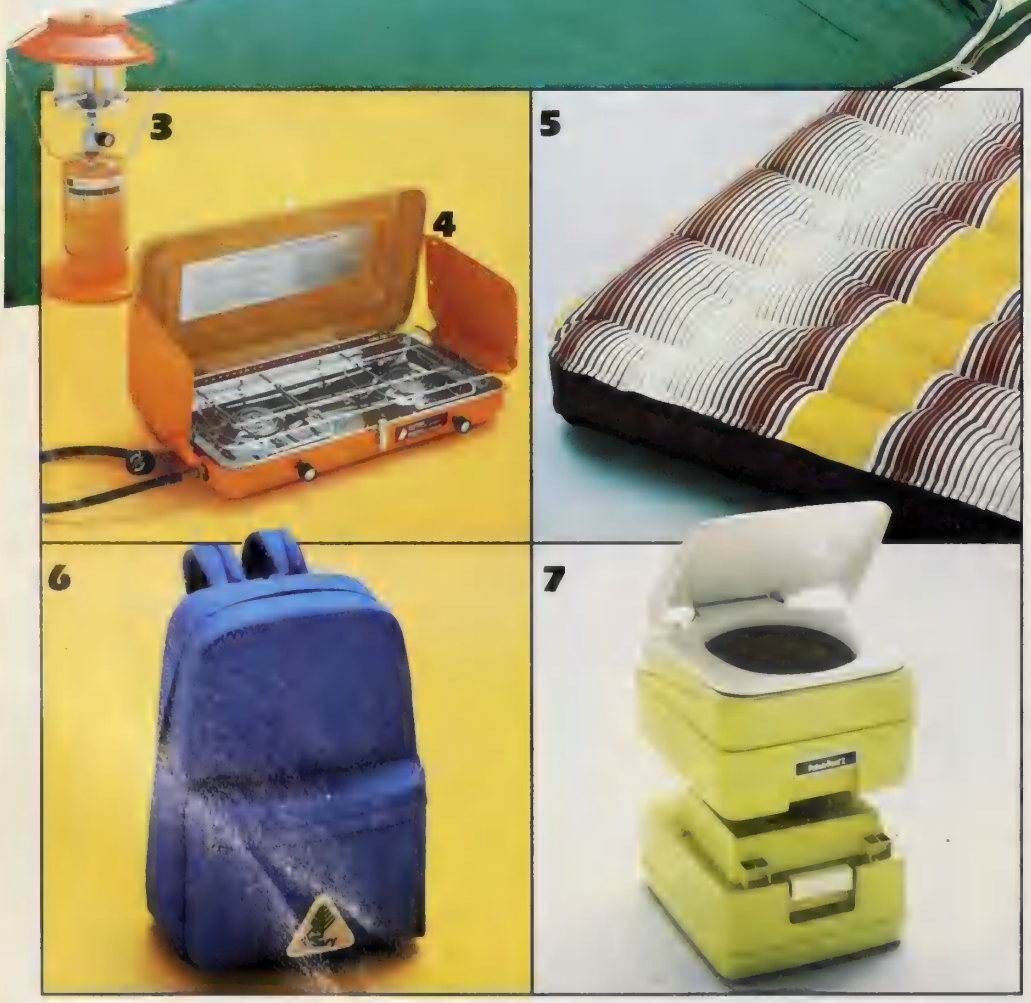

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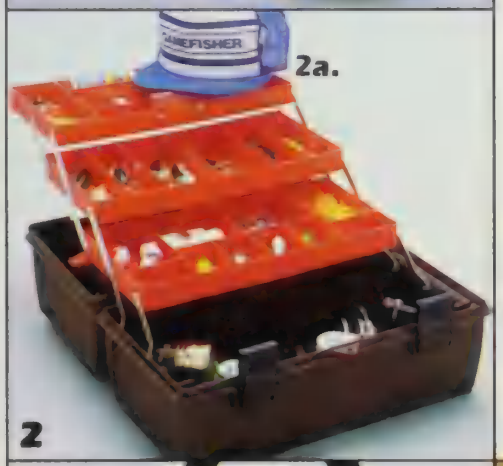
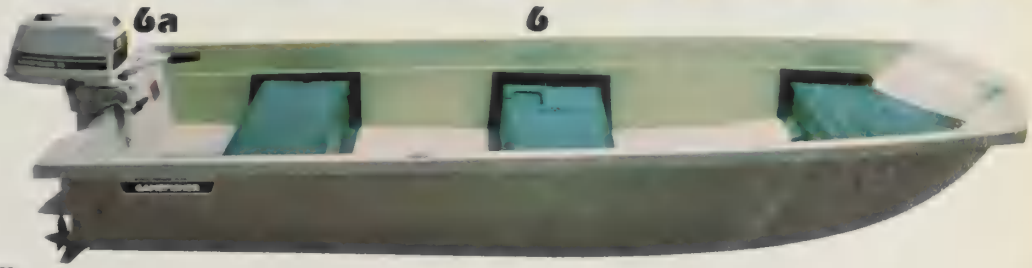
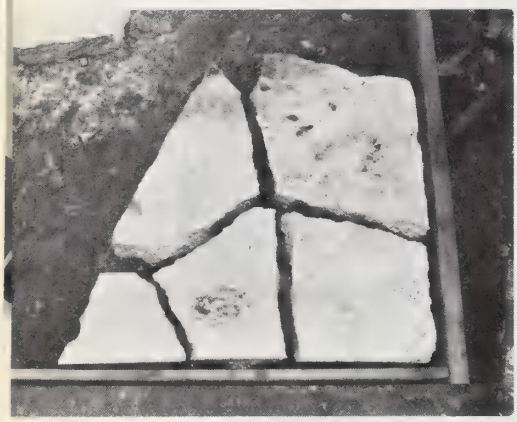




Layer of sand *(above) is base for positioning chunks of recycled concrete. For corner (below), one big slab has been broken into several chunks*

CHASE COM

Sleepy dogs lie *on "flagstone" walkway made from broken slabs of concrete*



Walkway remodel . . . broken concrete

Concrete broken into chunks is an attractive, inexpensive alternative to a formal poured-concrete walk. Chase Coman of Carlsbad, California, designed and laid this 10- by 19-foot entryway for less than 16 cents a square foot.

Mr. Coman replaced a rotting wood walkway with concrete salvaged from a city dump. (You could rent a jackhammer to break up existing concrete on your property, or find unwanted slabs through concrete breakers listed in th yellow pages.) He and two friends com pleted the work in a weekend.

They proceeded by installing 2-by- headers on both sides of the walk, leve ing the soil, adding a 2-inch layer o sand, then carefully arranging th broken concrete slabs. They groute these with premixed concrete. Yo could also use gravel, or soil mix fo planting crack-filling ground covers.

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DARROW M. WA

Triangular pop-outs *give three-way view from bedroom (above) and one-way view to front gate from kitchen (below)*

Pop-out windows are useful

Little window bays serve two different purposes in this Mill Valley, California, house designed by architect Jerry Smania.

In the bedroom, a triangular pop-out with windows on two sides maximizes the outdoor views, lets in more light than a flat window would, and provides a sunny window seat. Clear silicone seals the vertical seam where the two pieces of glass butt together.

In the kitchen, another triangular projection has a window on the left side only—angled for an easy view of the front gate—but is windowless on the right side to provide privacy from the street. ▫

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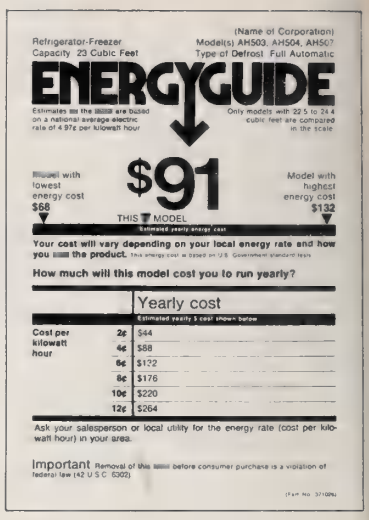
The Changing Western Home®

But what'll it cost to run all year?

Next time you shop for a major home appliance (furnace, refrigerator, freezer, water heater, clothes washer, dishwasher, or room air conditioner), you'll encounter federally mandated Energy Guide labels similar to the one at right. Understanding them will help you save energy and money.


(Name of Corporation)
Refrigerator-Freezer
Capacity 23 Cubic Feet
Model(s) AH503, AH504, AH507
Type of Defrost Full Automatic

ENERGYGUIDE

Estimates as the [redacted] are based on a national average electric rate of 4.97¢ per kilowatt hour

Only models with 22.5 to 24.4 cubic feet are compared in the scale

[redacted] with lowest energy cost
$68

$91
THIS [redacted] MODEL
Estimated yearly energy cost

Model with highest energy cost
$132

Your cost will vary depending on your local energy rate and how you [redacted] the product. This energy cost is based on U.S. Government standard tests

How much will this model cost you to run yearly?

		Yearly cost Estimated yearly $ cost shown below
Cost per kilowatt hour	2¢	$44
	4¢	$88
	6¢	$132
	8¢	$176
	10¢	$220
	12¢	$264

Ask your salesperson or local utility for the energy rate (cost per kilowatt hour) in your area.

Important Removal of this [redacted] before consumer purchase is a violation of federal law (42 U.S.C. 6302)

(Part No. 371084)

The labels let you compare the operating cost of similar appliances. For example, the dollar figure in large type shows how much it will cost to use this particular 23-cubic-foot refrigerator-freezer for one year, based on a national average electricity rate of 4.97 cents per kilowatt hour. The figures in smaller type on each side are the high and low energy costs for similar refrigerator-freezers by other manufacturers.

The table at the bottom of the label helps you estimate yearly cost based on your local utility rate; call your utility or ask at an appliance shop for the figure. (A current sampling of average rates: 1.62 cents per kilowatt hour in Seattle, 5.6 cents in Denver, 6.8 cents in Los Angeles, and 7 cents in Phoenix.)

Furnaces and room air conditioners carry a slightly different label. Since use varies widely depending on region, climate, and house design, each model is given an energy efficiency rating number for quick comparison. Then a table with a variety of estimated yearly hours of use helps you determine yearly cost.

The labels are intended to make buyers more aware of just which appliances are the energy guzzlers and which are energy efficient, thereby stimulating manufacturers to concentrate on improving their products' efficiency ratings. Since the appliances covered by the program consume 75 percent of all home energy, and home energy accounts for 20 percent of all energy used in the United States, the potential long-range savings in dollars as well as in energy consumed are substantial.

DON NORMARK

Window shade is bathroom cover-up

After their bathroom was remodeled, Don and Corkie Sharp of Seattle were left with a storage niche that they wanted to be able to close up. Their solution—a standard window shade. Mrs. Sharp found fabric that complemented the detailing of the new bath and mounted it to the roller shade with fusible webbing.

Gully gains ground gracefully

By cutting a wide swath through the 12-foot-high bank of his front yard, architect Thomas C. Moreland of Eugene, Oregon, made the climb to his house a graceful, gradual approach. He dug a path that varies in width between 5 and 8 feet, then poured a series of rough-surfaced rectangular concrete pads behind staggered railroad-tie risers.

Hidden fluorescent tubes light decks

A dramatic glow illuminates the spaces and defines the borders of these two outdoor areas.

Dennis Lamphere of Gig Harbor, Washington, tucked single-tube fixtures out of the weather under the hollow railcap formed by three pieces of cedar, as shown above.

To outline two U-shaped bench seats, architect C. Douglas Ballon of Palo Alto, California, extended the redwood tops to accommodate single-tube fixtures and a 2-by-4 skirt that masks the light. Tiled pedestals supporting the benches match the firepit and surrounding patio at the Atherton, California, home of Dr. Benjamin A. Halpren.

NORMAN A. PLATT

THE CALIFORNIA BUNGALOW

Rediscovering the California bungalow

The bungalow became one of the earliest images of Western living: a small one-story house with porch, set in a well-tended garden under a sunny sky. Recently, as many people look for affordable housing that they can remodel, the virtues of the bungalow have been rediscovered (see page 76 of the March 1981 *Sunset*). Now, for the first time, there is a book about the history of this pervasive early 20th-century dwelling.

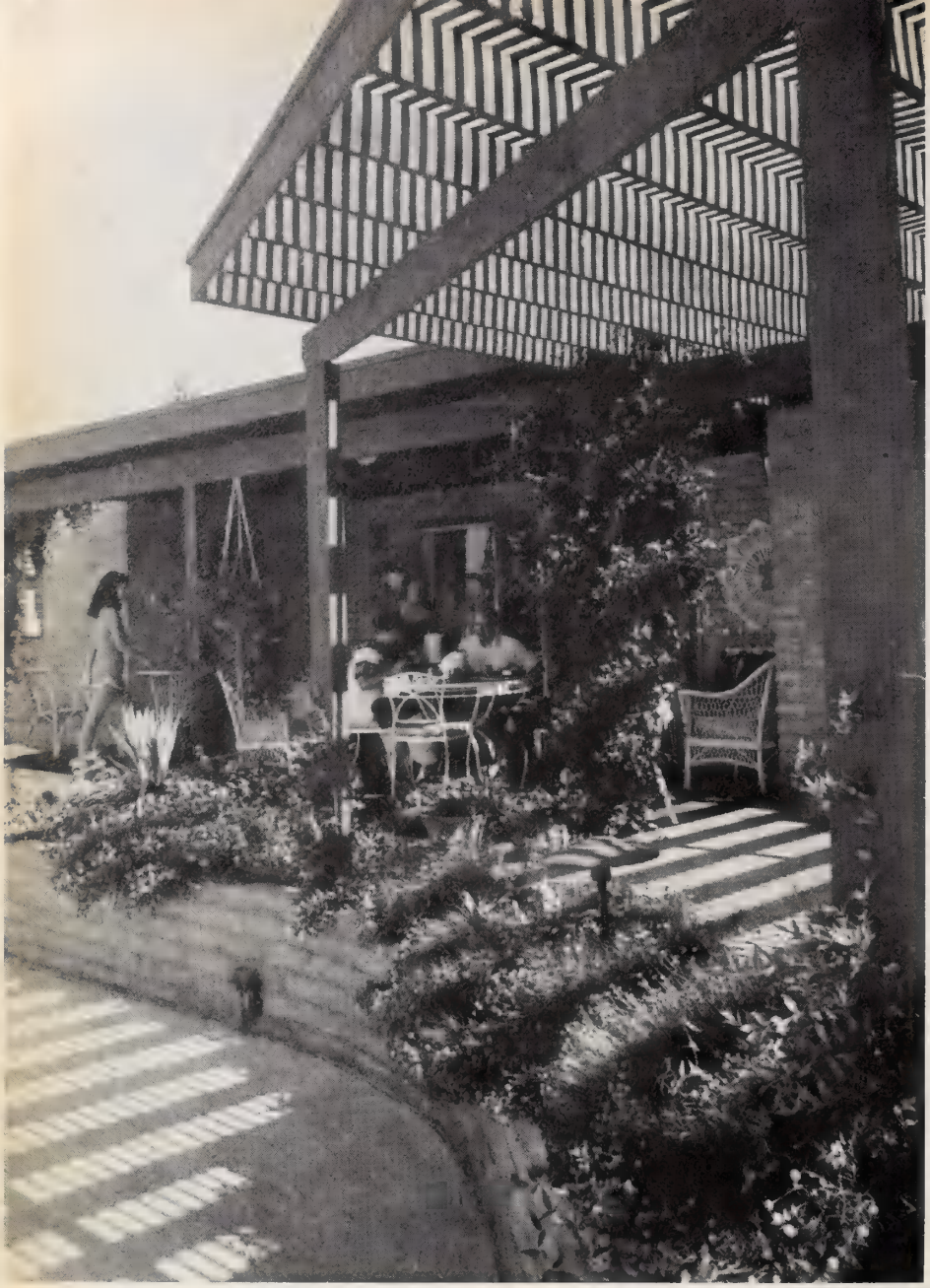
Titled *The California Bungalow*, by Robert Winter (Hennessey & Ingalls, Los Angeles, 1980; $14.95), the 95-page book explains how the bungalow became so popular. Among the 120 photographs are many early views of interiors complete with vintage furniture—often built in to save space. Homeowners wishing to restore, renovate, or identify bungalows will find this book helpful.

Mr. Winter, a professor of history at Occidental College, writes with wit and warmth. As a bungalow owner, he speaks from experience as well as scholarship, listing major characteristics in style, design, materials, size, and use of outdoor-living areas.

Kids are skylight lovers, too

The house may be small, but it's filled with light that makes it a nicer place to play. Ron and Marg Barth of Springfield, Oregon, made the entire roof of Molly and Alyson's playhouse a skylight. Translucent fiberglass ripple panels sit on the cedar 2-by-6 frame, extending over the playhouse porch.

MICHAEL THOMPSON



NORMAN A. PLATE

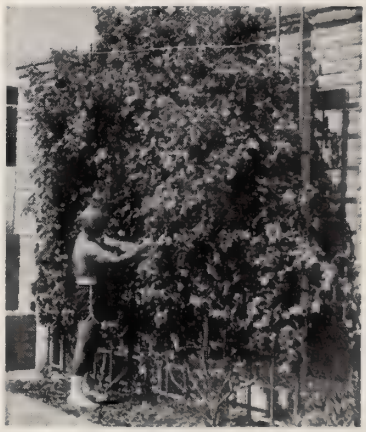
Lathed trellis *gives 50 percent shade; Carolina jessamine vines will grow up 4-by-4 support posts and spread over top for even more shade later on*

Low-desert areas of the West heat u fast: from late spring through fall th sun is often hot as soon as it comes u And for nine months or more, sun co trol is a major problem. Aram an Nancy Chorebanian's Tucson garde and house, pictured here, show ways t temper the sun in the hot months.

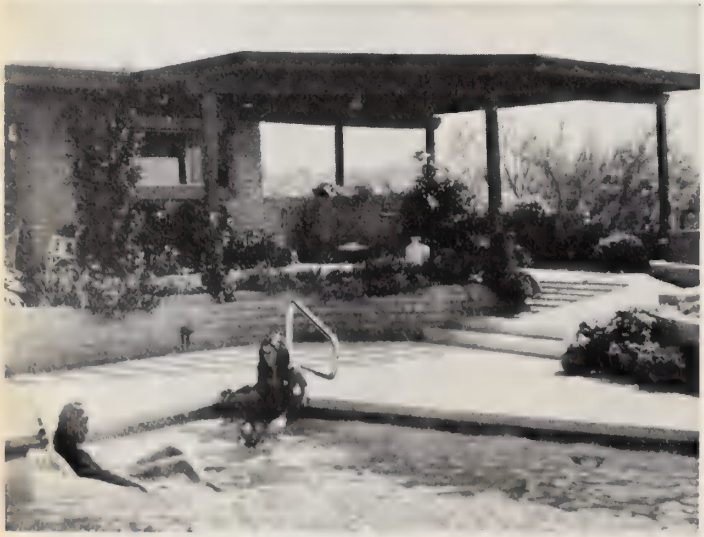
Over the south-facing patio, at left, is 16-foot-deep cover built into the hous design. It gives total shade except whe the winter sun is lowest—and the sun shine is welcome. But the big shad maker is a 20- by 25-foot lath trellis tha spreads over a new brick patio off th master bedroom.

From spring to late fall, grapevines shad the east-facing wall of the bedroom. Th wood support is 14 inches out from th house to allow air circulation.

Joe Prchal of Architectural Landscapin designed the garden and large trellis.



Grapevines *grown for their leaves (in Armenian dishes), fruit, and shade shield east house wall from hot morning sun*



It's midmorning in late June. *Already-high sun beats on pavement, but trellis shades south-facing sitting areas*

South-facing trellis tempers the hot sun in Tucson

BILL ROSS

Dappled shade *falls on firepit seating area and hot tub. At deck's end stands a combination shower and dressing screen*

New deck steps down to tub. Wood screen hides shower

epping downhill from an existing ck, new multiuse decks give Homer d Becky Vasel places for outdoor en- rtaining, sunning, soaking, changing, d showering.

e center of the addition's upper half a firepit built up from ground level. walls, of sand-filled concrete blocks d fire bricks, are finished with brick vers. A few steps away, a hot tub rests concrete parking blocks (long blocks, ed to help define parking spaces, that st less than $8; look under Building aterials in the yellow pages). The lower ound level at this end allows the tub to recessed into the deck of well-sanded 2 by 3's.

or underpinnings of the new 16- by 4-foot deck, designer Joane Hamilton amma of Corona, California speci- d 4-by-4 posts on concrete piers, with 4-by-6 joists. She used fir 2 by 6's for steps, risers, and the 22-inch-high walls of the firepit "moat" and its surrounding decking—which continues as bench seats around the hot tub.

Beyond the hot tub, a wall of 4 by 4's and 2 by 6's hides a shower and an area that will double as a tubside changing room when canvas curtains are hung on the overhead framework. Atop the shower wall is a planter box with a low relief of spaced 2 by 2's.

The Vasels often use the hot tub after dark and wanted to provide some lighting to make entry safer. To avoid the cost and complications of installing a waterproof pool light, they cut a hole in the tub wall and used silicone sealant to affix a brass porthole bought from a boat chandler. Outside the porthole, a 12-volt garden fixture casts light into the tub. □

Outside hot tub, *low-voltage garden light, mounted on a board, shines through 6-inch porthole*

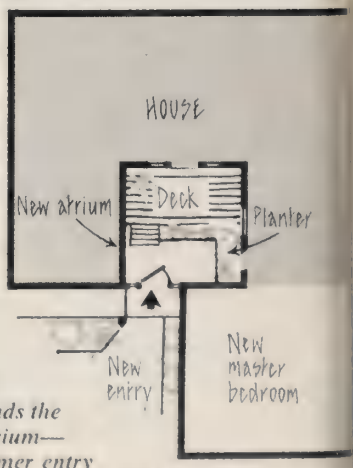
NORMAN A. PLATE

Dramatic structure *of atrium roof is visible through glass panel over front door. Outside trellis echoes beam detailing*

Quarry-tile floor *on lower level of atrium slopes slightly toward planting beds for easy drainage during hose-downs*

Upper level *of atrium is a carpeted garden room with casual furniture*

Their new solar atrium is lofty, sunny, split-level



House *surrounds the new atrium—the former entry court. Brick patio outside new master bedroom leads to front door*

A stolidly ordinary U-shaped stucco house enjoyed a happy metamorphosis when Berkeley architect Ron Bogley extended one wing for a new master bedroom. He moved the front door forward to enclose the center of the U and roofed the space with glass, creating a 12- by 20-foot atrium.

Now the house has a more distinguished exterior—of stucco, glass, and wood—as well as the split-level atrium. The upper level, a 10- by 14-foot redwood deck built out from the living room, is the family's favorite spot for early evening relaxation and weekend breakfasts; a boldly patterned rug over much of the decking relates this space to the house's interior.

The lower level is a quarry-tiled courtyard surrounded with planter beds. The tile is easily cleaned with an occasional hosing during plant watering. (Frost-tender plants flourish in the sheltered but well-lit room.)

On all but the coldest winter days, the atrium provides passive solar heat for the entire house. When the sun is out, doors and windows on three sides of the atrium are opened to let heat circulate through the house. Since the atrium never gets below 63°, the house needs backup heat only occasionally.

In summer, the front door is opened so breezes can circulate through the atrium and out high jalousie windows along the roof's perimeter.

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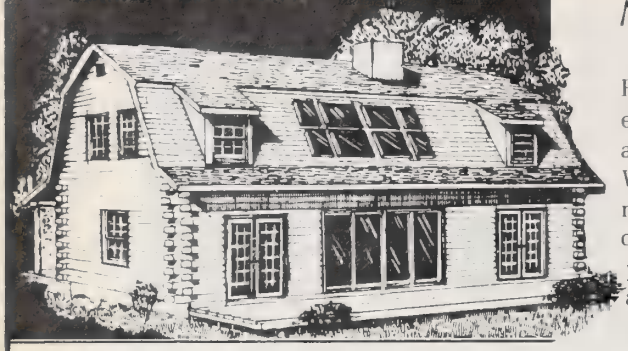

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DON NORMAN

Wide access *to curved, cantilevered deck is provided by sliding barn door*

Triangular glass panels *in sliding doors maintain look of openness from inside*

Four barn doors open the house

Doors that open wide seem to take best advantage of the generally benign climate in the hills behind Oakland. Here 5-foot-wide barn doors serve well in an unusual house designed by Douglas Shaw and owned by Barbara Silverberg.

The four barn doors used at the entry and as access to decks were built by carpenters on the site, using Douglas fir lumber. All have an interesting pattern of glass panels placed between diagonal bracing. They slide on galvanized steel barn door hardware.

The doors leading to two decks also have screen doors that slide open on second tracks. Their framing members repeat the pattern of the framing members of the doors they cover.

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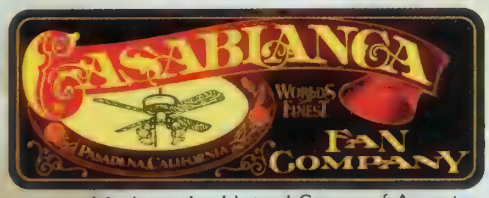

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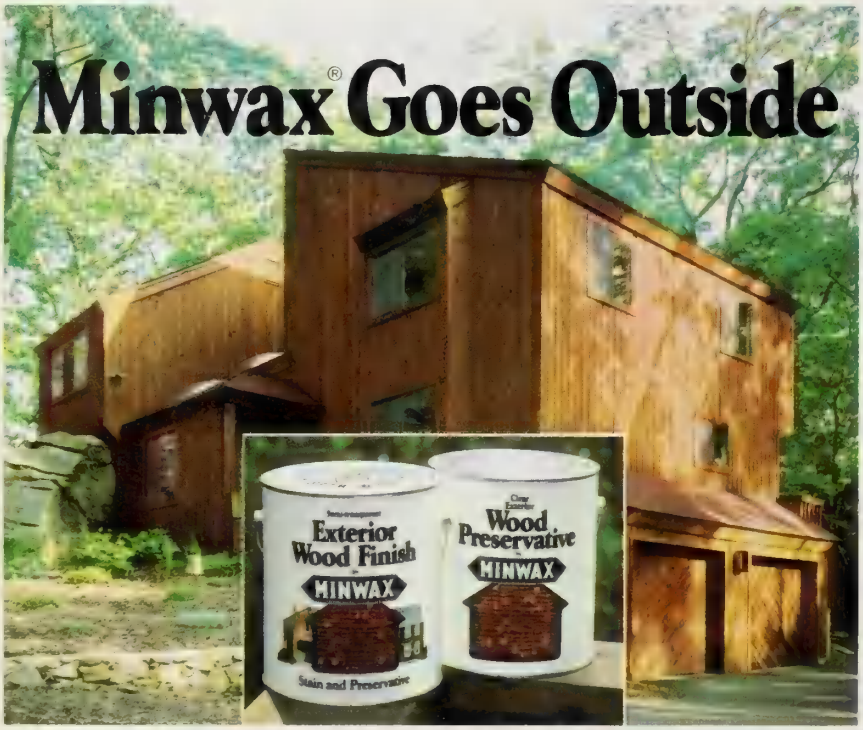
Built-to-last *play set accommodates aspiring gymnasts and young swing Framework is made of pee cores fastened with lengths galvanized pipe. Caps threaded onto ends of pipe (see below) serve as "nuts"*

DON NORMARK

Timbers, pipe, rope . . . sturdy play set



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Log-solid sturdiness and rustic har someness distinguish this homema play set. And it has another attracti feature: it was relatively inexpensive build. Owner Ron Mount designed a built the set for his children, using abo $75 worth of materials.

For the structural framework, he us Douglas fir peeler cores (rounds of woo 8 feet long left over after logs are peele at a plywood mill). Cores were set 2 fe into the ground, each embedded in tw 90-pound bags of premixed concret Swing supports were joined by length of threaded ¾-inch galvanized pipe "bolts" with caps at each end serving a "nuts." One-inch-diameter holes for th pipe sections were drilled with a heavy duty electric drill using a 1-inch bit.

The swings were suspended by thic manila rope (you could substitute sturd nylon rope) tied to eye bolts. Three rope secure the tire swing. Mr. Mount bore holes through the top side of the tire wit a ¾-inch bit, threaded rope through then slipped on a 2-inch washer befor tying off the rope end with a double knot.

The 3½-foot-long exercise bar (another piece of ¾-inch pipe) was attached to support posts with wall flanges screwed into the upright post.

Surrounding the play set is a graveled circle about 16 feet in diameter. The 3-inch-deep layer of pea gravel has a cushioning effect. It's rimmed by a raised curb (made of exposed aggregate), which helps keep the gravel from scattering into adjacent garden beds or lawn. □

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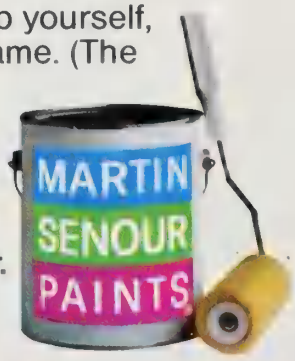

Lyle the Lion from Animal Crackers Cartoon © 1981 by Chicago Tribune – New York News Syndicate, Inc.

DAVID

Wedge of space *between floor and sloping ceiling is used for storage*

Sneaking storag under the roof

Horizontal closets can fill the need storage space in rooms with a pitc roof, as two northern California fami have discovered.

The photograph above shows sleep bag storage at one end of a loft desig by Ukiah architect Max Kappeler Kappeler and Axt. Cabinet doors attached to a 2- by 7-foot wood fra between floor and sloping ceiling. T enclosed space is 2 feet deep.

Owner-builders Walter and Ka Brown used the same idea on a sligh larger scale in their Berkeley attic model. They added a 4-foot-high st wall to one side of the room. Behi it, in a part of the attic that is too l for people to stand in, they now ha a 3-foot-deep storage locker.

NORMAN A. PL

In remodeled attic, *new stud wall turns hard-to-use space into large closet*

GLENN CHRISTIANSEN

Set up *in a courtyard, tent pavilion shades buffet area during wedding reception. Guests serve themselves from refreshment tables arranged around center pole*

Our cover tent makes a party pavilion. Pattern is available

Tied down on a permanent deck, the tent pavilion on page 107 serves as a vacation place. To test the idea, we made the same tent but used it very differently: as a party pavilion. Set up in a grassy courtyard, it served as a covered buffet area at a *Sunset* staff member's wedding reception.

The tent took another staff member—an experienced sewer—43 hours to make; materials cost $500. Sixty yards of fire-retardant nylon taffeta (30 yards each of two colors), zippers, and ropes were special-ordered from a sailmaker; these materials are also available in some awning shops and from tent or backpack fabric suppliers. Redwood garden stakes and redwood 2 by 2's for the center pole were bought at a lumberyard.

To obtain a pattern and sewing instructions, send a stamped, self-addressed business envelope to Tent Instructions, *Sunset Magazine,* Menlo Park, Calif. 94025. Although much of the sewing is repetitious, tent pieces become unwieldy as they are stitched together. Do not attempt to make the tent unless you are an experienced sewer and are skilled with your machine.

You'll also need a large table or floor space for cutting out the pieces.

Some cities have ordinances that prohibit any kind of tent structure on property within city limits. If in doubt, check local codes. □

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S-6

DON NOR

Lift-off lid *covers space for hose and other rustproof garden accessories*

Bench top flips off for storage ...planter alongsid

Combining four functions — storag seating, planters, and light — the lon L-shaped box pictured below edges tw sides of a spacious Seattle deck.

The unit was designed by Brad and Car Adams and built with the help of Joh Quimby. Built around a 2-by-4 frame, it covered with rough-sawn cedar sidin and finished with 1-by-2 trim. All woo was treated with an outdoor wood stai to match the deck flooring and house.

Along one side, a storage bin accommo dates a hose and other ungainly garde equipment. Its removable lid is a rec tangle of 2 by 2's spaced to let rain ru through and out drainage holes in the bottom.

Flanking entry deck, *bench ties in with metal-lined planters and globe lamp*

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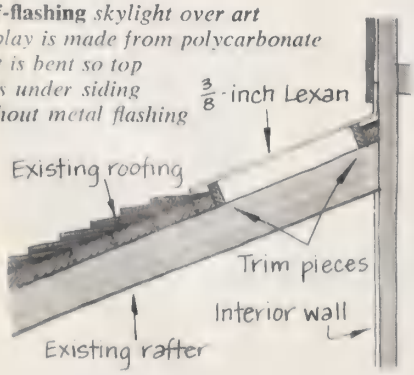
NORMAN A. PLATE

Long, skinny sky windows *in the living room (left) and kitchen (right) cover openings cut in the overhead roofing*

Ribbon roof-windows light their art walls

Self-flashing *skylight over art display is made from polycarbonate that is bent so top slips under siding without metal flashing*



The long swaths of light that spill from the pitched roof in Mary and Marco Walshok's home weren't always there. Instead, there had been only the somber darkness of the stained 2-by-6 roofing, and the interior walls and east-facing rooms seemed gloomy. Skylights were an obvious solution for bringing light into the house, but architect Peter Rodi, of San Diego's Designbank, took the obvious one step further.

Instead of rows of individual skylights, Rodi chose to cut room-length holes in the roof where he wanted light and then to cover them with a shatterproof polycarbonate product called Lexan. It's a neat trick that works parallel, perpendicular, and even diagonally to the run of the roofing material.

The long sky windows are used in four different locations at the Walshok home. The longest one, shown above left, runs 30 feet along the roof ridge. This 15-inch-wide window butts right up to and bounces light off the upper part of the house's tall center wall. The high dif-

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Architect Wendell Lovett, FAIA, Seattle, Washington

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NORMAN A.

In dining room, *skylight bends over ridge beam, angles diagonally at lower corner*

Popped-out fireplace bay *widens, brightens room but screens neighbor's house from view*

fused light illuminates the living room and entry, and accents the Walshok's collection of Japanese woodblock prints. A soffit below the sky window protects the prints from direct sunlight, which could fade them; its underside contains lighting for nighttime illumination.

Over the cabinets in the kitchen, a 16-inch-wide window provides a subtle gain of light. The white wall above the cabinets bounces light into the room, but they stop it from entering directly.

The sky window along the edge of the dining room is 24 inches wide along part of its run, then cuts diagonally across the roof line for a wider expanse. At the ridge, it bends to follow the roof's change of pitch.

The last use is above a new popped-out bay in the living room. The new rafters line up with the existing ones to continue the appearance of the original roof. ▫

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NORMAN A. PLATE

Triangular *cubbies in vertical slot next to stairway neatly store wines, champagne*

Display storage . . . books, records, win

Recessing shelves in a thick plaster wall is one way of putting its depth to work. Architect Johannes Van Tilburg and his wife JoAnne tried this in several walls of their house in Malibu, California. Objects stored in these shelves gain visual impact as well as accessibility.

Dark-stained 8- and 10-inch-wide fir shelving was used in both sides of the living room staircase. Beside the wet bar is a 1½- by 3½-foot niche for stor wine. Diagonally set boards form tri gular bays, each of which holds seve bottles.

The other side of the stairway wall ho books, records, and an occasional pho graph. (Lower shelves, which supp heavy books and stereo equipment, 1½ inches thick.) An angled shelf wit 2-inch lip puts art books on display.

Shelving niches *are carved into thick plaster walls of stairway*

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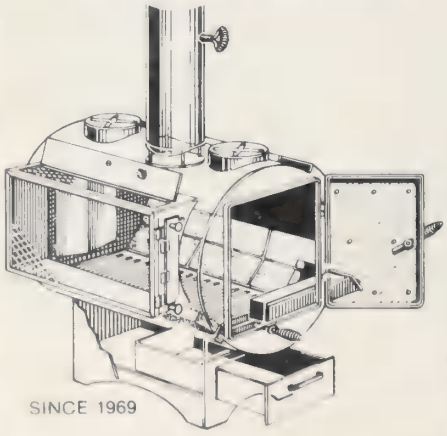

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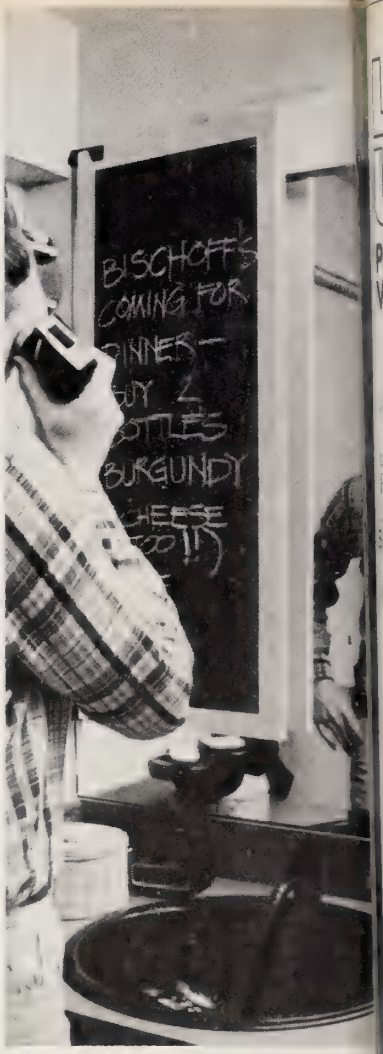

Late sleeper *gets reminder from early on medicine cabinet message board*

Their bathroom a message cente

In a busy household, family mem may come and go without cro paths. But in the morning, ever seems to pass by the bathroom med cabinet. That's why Seattle architec ther Hintz turned the door of his a family message board.

The door, pictured here, was bui part of a remodel, but the idea c be adapted to an existing cabinet—i bathroom, kitchen, or other high-t area. Attach a thin piece of hardb inside the door and paint it with coats of blackboard paint.

Once they've been received, cha messages can be wiped clean wit damp cloth or sponge. Admits o Hintz, "The nonessential, funny sages are the ones that can get your off to a great start."

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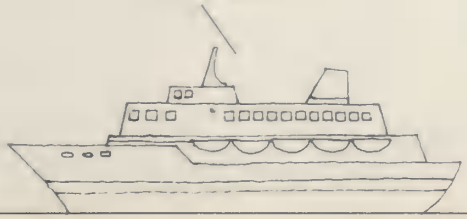
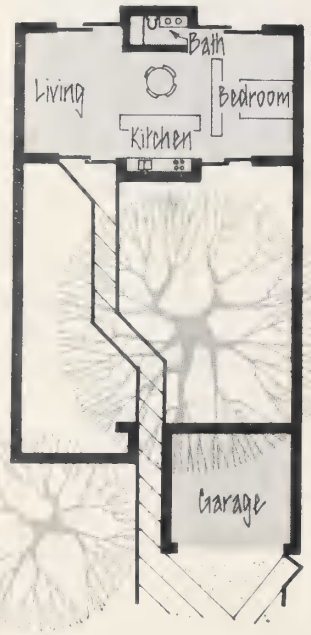


DON NORMARK

Open the gate *in this shingled wall and you're in a garden that seems like an outdoor room*



Walking in *from the street, you see the lintel of 2 by 12's on edge that marks the entrance. Mailbox is at left, garage wall at right. Drawing shows how walls tie into garage and house*

Garden inside a shingled wall

A small house needn't seem confining if its owners can see and use most of their lot in complete privacy.

This one, in Santa Rosa, California, seems much more expansive than its less-than-1,000 square feet of floor space would suggest: that's because an eight-foot-high, double-sided shingled wall reaches out from the house to enclose a front garden that's 40 by 40 feet—even after required street and side-yard setbacks. The garden gate now works as the house's front door; it locks, and a doorbell here sounds indoors.

Although the expanse of shingled wall may appear extravagant, it has structural as well as aesthetic justifications: it extends two windowless, already-shingled side walls of the house and makes up three sides of the two-car carport. And to the left of the entrance gate, the wall takes a couple of short turns that form an out-of-view garden shed.

Both wall and front garden need only minimal maintenance. Built without trim, the shingled wall requires neither paint nor stain. In the enclosed garden, spring-blooming broad-leaf evergreen shrubs rise from an ivy ground cover under a magnificent old oak.

House and wall were designed by Lawrence Simons and Associates. □

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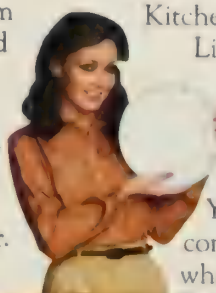

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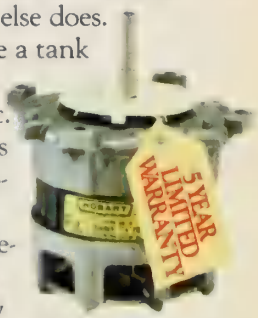

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WILLIAM H

"Turning *the corner" takes on new meaning with this rotating corner pantry. Its plywood shelves are edged with thin oak to help keep cans in place. Outside corner (right) is curved*

Inside the tall box ...a spinner

Floor-to-ceiling in height, the corner cabinet at the entry to this kitchen is like a quarter of a lazy Susan. The whole cabinet turns on a heavy-duty ball-bearing base. At the top, it pivots around an adjustable metal rod secured in a flat metal plate in the ceiling.

For all its size and bulk, the cabinet turns with just a soft push. And a rubber stop on the underside of one of the shelves strikes part of the outside wooden frame to keep it from rotating too far.

Designer-builder Daryl Rush of Piedmont, California, built the 19-inch-deep unit to help hide the refrigerator it flanks and to provide an easy-to-reach storage system for small boxes and cans. Like the rest of the kitchen cabinets, it's made from 1-by-8 hickory.

The gently rounded corner makes the entry to the kitchen seem a little less abrupt; it was built up from three narrow strips of wood that were rounded with a draw blade and sander.

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Prices may vary in Alaska and Hawaii. Available i most larger Sears retail stores.

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Ripstop nylon *canopy casts welcome patch of shade for sandbox construction workers*

Redwood *4 by 4's anchor PVC pipes at corners. Owner nailed 2-by-6 seat to one side*

CAROLYN JONES

r peak *of canopy, four ¾-inch pipe sections are glued X joint with solvent cement*

ed *and twisted wire des nonslipping anchor anopy's corner ties*

All is cool under their sandbox canopy . . . PVC pipe and nylon cover

A sandbox in the summer sun can become a miniature Sahara. To shade their children, John and Vicky Bannerman of Albuquerque designed and made the nylon cover pictured here. It cost them about $25.

To make a similar canopy, you'll need four ¾-inch-diameter schedule 40 PVC pipes; their length will depend on the dimensions of your sandbox (the Bannermans used 8-foot-long pipes for a 6- by 6-foot sandbox), one cross joint for ¾-inch PVC pipe, PVC cement, about 5 yards of 45-inch-wide ripstop nylon, a large piece of clear plastic or brown paper (for a pattern), about 2 feet of soft mechanic's wire, masking tape, and four 1-foot-long 4-by-4 posts.

First drill ⅞-inch holes about 6 inches deep into the tops of the 4 by 4's. Secure the posts to the sandbox corners with angled 4-inch (20d) galvanized nails.

Push the four pipes into the X joint and insert the other ends into the post holes. Adjust pipe length, if necessary, before gluing the joint.

To make a pattern for the canopy, lay the plastic over the top of two adjacent sections of pipe, tape it in place, and trace the outline of the pipes onto the plastic. Make the distance from the top center to the lower edge 1 inch less than the width of the fabric. Cut the plastic along the tracing marks, pin the pieces to the nylon, and cut two of each, allowing an additional ½ inch for seams.

Machine-stitch curves together and sew a ½-inch hem around the bottom; reinforce seams and hem with another row of stitching. For the corner ties, cut eight 1- by 6-inch strips of nylon and sew each in half lengthwise, right sides together. Turn ties right side out and sew onto each corner of the canopy (see bottom left photograph). Twist a short piece of wire around each pipe just below the canopy corner. Tie the canvas strips through the wires, as well as around the pipes.

PVC supplies are available at irrigation system and most building supply stores. Ripstop nylon is sold at large fabric stores and awning shops. □

Sunset's Kitchen Cabinet®

Father's Day, senior skip day, or simply a glorious weekend—all make fine occasions for a summer barbecue party. Grill herb- and mustard-marinated chicken pieces to serve with the make-ahead layered salad. Top it all off with homemade frozen yogu

For a quick entrée elegant enou company, try pasta studded wit shrimp and crunchy nuts. Othe ipes that can help with entert are sausage loaves for a brunch l

Brush tangy marinade over chicken as it cooks on barbecue grill or broiler pan

Barbecued Herb-Mustard Chicken

This herb-wine marinade is spiked with brown mustard. It adds a subtle tangy zest to the chicken.

- ½ cup dry white wine
- ⅔ cup salad oil
- 6 tablespoons wine vinegar
- 2 tablespoons finely chopped onion
- 2 teaspoons salt
- 1 teaspoon Italian seasoning or thyme leaves
- 2 cloves garlic, minced or pressed
- ½ teaspoon pepper
- ¼ cup spicy brown mustard
- 1 broiler-fryer chicken (about 3 lbs.) cut in quarters

Combine the wine, oil, vinegar, onion, salt, Italian seasoning, garlic, pepper, and mustard. Pour over chi coating all pieces. Cover and ch least 4 hours, stirring occasional overnight.

Lift chicken from marinade and briefly (reserve marinade). Arr chicken, skin side up, on a li greased grill or rack on a broiler Cook 4 to 6 inches above a solid of low-glowing coals or broil 4 inches from the heat. Cook, tur and basting frequently with rese marinade, for 40 to 50 minute until meat near bone is no longer when slashed. Makes 4 serving *S. A., Mission Hills, Calif.*

Crunchy walnuts and succulent shrimp in a creamy sauce dress up fettucine

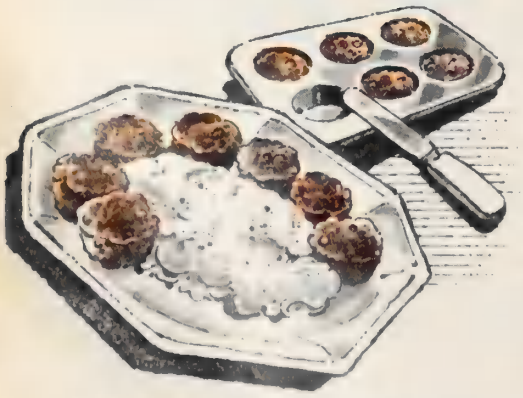
Shrimp and Walnut Fettucine

While the noodles cook, you can quickly make the creamy sauce.

- 2 packages (10 oz. *each*) fresh fettucine or ¾ pound dry fettucine noodles
- Boiling salted water
- 6 tablespoons butter or margarine
- 3 cloves garlic, minced or pressed
- ⅔ cup coarsely chopped walnuts
- 1½ cups half-and-half (light cream)
- ¼ teaspoon ground nutmeg
- ½ pound small cooked shrimp
- ⅔ cup grated Parmesan cheese
- 2 tablespoons chopped parsley

Cook the noodles in a large kettle of boiling salted water until barely ten- der, following the directions on package; drain well and cover t to keep warm.

In a 12-inch frying pan, melt the ter over medium heat; add garlic nuts and cook, stirring, until gol Add the half-and-half and nut and boil until sauce reduces sligh then add the shrimp and the nood Reduce heat to low and, with l forks, gently toss, gradually ad cheese. Toss until noodles are hot well coated with the sauce. Gar with parsley. Makes about 4 entré 8 first-course servings.—*B. R., Wi son, Wash.*



Spicy sausage loaves in muffin cups are easy to serve for breakfast buffet

Individual Sausage Loaves

Chopped vegetables extend a pound of pork sausage to make 12 servings. They also add texture and flavor.

- 1 pound bulk pork sausage
- ½ cup *each* chopped carrots, green pepper, and onion
- ⅓ cup fine dry bread crumbs
- ⅓ cup tomato-based chili sauce
- 1 egg
- 2 tablespoons chopped parsley
- ¼ teaspoon *each* pepper, garlic salt, and rubbed sage
- Tomato-based chili sauce or catsup (optional)

Combine the sausage, carrots, green pepper, onion, bread crumbs, the ⅓ cup chili sauce, egg, parsley, pepp garlic salt and sage; mix until th oughly blended.

Press sausage mixture into 12 grea medium-size (about 2½-inch) muf cups. Cover and chill, if made ahe Place muffin pan on a shallow rimm pan to catch any drippings; then ba in a 350° oven about 35 minutes until no longer pink when slashed center with a knife.

Remove sausage loaves from pa and serve hot with additional ch sauce, if desired, to spoon over in vidual servings. Makes 12 servings.— *G. B., Seattle.*

:ucchini squares for appetizers.

ɔu have some favorite recipes l like to share, send them to *et Magazine*, Menlo Park, Calif. 5. We pay $25 for each recipe shed.

For June hungers . . . sausage loaves, zesty herb-mustard chicken

s Layered Salad

: this salad for a light lunch e or as a meal starter.

cup mayonnaise
teaspoons Dijon mustard
teaspoon *each* ground nutmeg and salt
medium-size head lettuce, shredded
package (10 oz.) frozen peas, thawed and drained
ounces Swiss cheese, cut in julienne strips
small sweet onion, thinly sliced
teaspoons sugar
slices bacon

together the mayonnaise, mus- nutmeg, and salt. In a deep 4-quart or larger salad bowl, place half of the lettuce. Top with half of the peas, then half of the cheese strips. Spread half of the mayonnaise mixture evenly over cheese; cover with half of the onion slices and sprinkle evenly with half of the sugar. Repeat the layers.

Cover tightly and chill at least 2 hours or overnight. Meanwhile, cook the bacon until crisp; then cool and crumble. Before serving, sprinkle bacon over top. To serve, use a spoon and fork digging all the way to the bottom to lift out each serving. Makes 6 to 8 servings.—*J. R., Los Angeles.*

Layer lettuce, peas, cheese, dressing, and onion for salad; top with bacon

chini-Cheese Appetizer Squares

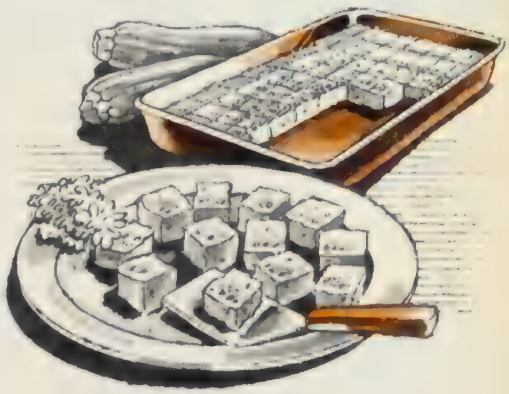
savory zucchini-flecked cheese ard makes 10 dozen appetizers.

cup salad oil
small onion, chopped
clove garlic, minced or pressed
cups shredded zucchini
eggs, beaten
cup fine dry bread crumbs
teaspoon *each* salt, dry basil, and oregano leaves
teaspoon pepper
cups shredded Cheddar cheese
cup grated Parmesan cheese
cup toasted sesame seed

wide frying pan, combine oil, n, and garlic; cook, stirring, over medium-high heat until almost limp, about 4 minutes. Add zucchini and cook until tender-crisp, about 3 minutes. Mix eggs with bread crumbs, salt, basil, oregano, pepper, Cheddar cheese, and zucchini mixture.

Spread into a greased 9- by 13-inch baking dish. Sprinkle with Parmesan cheese and sesame seed. Bake in a 325° oven about 30 minutes or until set when lightly touched in center. Let cool at least 15 minutes.

Cut in about 1-inch squares and serve warm, at room temperature, or cold. Makes about 10 dozen appetizers.—*L. F., Concord, Calif.*



Bake zucchini-and-egg mixture in pan, then cut into squares for appetizers

zen Raspberry Yogurt

e this frozen yogurt in an ice m freezer or home freezer.

envelope unflavored gelatin
cup cold water
to 2 cups sugar (to taste)
boxes (10 oz. *each*) frozen raspberries, thawed, or 2 cups fresh raspberries
cups unflavored yogurt

a small pan, mix gelatin with r; let stand for about 1 minute. n stir over medium heat until pletely dissolved. In a blender or l processor container, combine gelatin mixture, sugar, and rasp- ies. Whirl until smooth. Stir into yogurt. Pour into a 4-quart or larger ice-cream freezer can.

Assemble the freezer with ice and salt according to manufacturer's directions. When hand cranking becomes difficult or the electric motor stalls, remove the dasher. Cover tightly and freeze until solid. Makes 2½ quarts. —*L. F., Salt Lake City.*

To make in a home freezer (at 0° or below), pour yogurt mixture into a metal pan; cover and freeze. When a 2-inch border has frozen (about 1½ hours), beat with electric mixer or in food processor until fluffy. Cover and freeze until solid.

Serve this simple version of frozen raspberry yogurt in cones or dishes

Generous basting *with soy-sherry marinade gives barbecued pork roast irresistible aroma and flavor*

Thin strips *of buttery omelet crisscross noodle-and-vegetable main dish called bahmi*

Java comes to Marin

Ideas from tropical Indonesia at an outdoor buffet in Mill Valley. Showstopper is criss-cross *bahmi*

"When I ask my family or friends what they'd like me to cook for them, their answer is invariably Indonesian food," Els Tuinzing told us. Born in Indonesia and living now in Mill Valley, California, she often serves this menu featuring several of her specialties when she entertains 8 to 10 guests. The menu is ideal for entertaining because all the dishes benefit from being made ahead.

The showpiece of the meal is *bahmi*, a colorful combination of stir-fried vegetables and fresh Oriental-style noodles, generously seasoned with a spicy red pepper condiment. A creamy peanut sauce goes on both it and a platter of crisp raw vegetables, and additional red pepper sauce is on the table for those who want to add more heat.

Barbecued pork roast, marinated overnight in a sherry-laced soy mixture, rounds out the menu.

Indonesian Patio Dinner

Barbecued Pork Roast
Stir-fried Vegetables and Noodles (*Bahmi*)
Peanut Sauce **Red Pepper Sauce**
Raw Vegetable Platter **Cucumber Fingers**
Steamed Rice (optional)
Fresh Fruit

Prepare the peanut and red pepper sauces at least a day in advance or up to a week ahead. Assemble and bake the bahmi a day ahead, then chill it so flavors can blend. Marinate the roast the night before or early the day of the party.

Marinated Pork Roast

To serve 8 to 10 people, you'll need a 5-pound pork shoulder roast, boned and tied. Combine 1 cup regular-strength chicken broth, ⅓ cup sugar, ½ cup soy sauce, and 2 tablespoons dry sherry. Place the roast in a plastic bag in a shallow dish, pour marinade over meat, and loosely fasten the bag. Let stand 8 to 24 hours, turning bag occasionally.

About 4 hours before you plan to serve, ignite the briquets. When the charcoal is covered with gray ash, bank coals on each side of the barbecue and place a metal drip pan in the center. Place the

4 to 6 inches above the pan.

roast from marinade (reserve liq- insert a meat thermometer into the r of the roast. Place it on the grill e the drip pan; cover barbecue and basting every ½ hour with mari- until thermometer registers 175°, t 3 to 3½ hours. Warm remaining nade to pour over slices of roast.

ni

medium-size onions, sliced
cups thinly sliced celery
small head (about 1½ lbs.) cabbage, coarsely chopped
cups edible-pod peas, tips and strings removed
arge tomatoes, coarsely chopped
package (16 oz.) fresh Japanese-style noodles (narrow or wide) or egg noodles
o 3 tablespoons soy sauce
easpoons salt
easpoon anchovy paste (optional)
cups shredded pork, chicken, or beef (optional)
tablespoon *each* salad oil and butter or margarine
cloves garlic, minced or pressed
teaspoons red pepper sauce (recipe at right)
tablespoon butter or margarine
eggs, lightly beaten

Prepare the vegetables and have them close at hand. Cook noodles according to package directions; drain well and set aside. In a small bowl, combine soy sauce, salt, and anchovy paste and meat (if used); set aside.

In a wok or 5-quart Dutch oven over high heat, combine oil and butter; add garlic, red pepper sauce, onion, and celery; stir-fry for 3 minutes until vegetables are tender-crisp. Stir in soy mixture; stir-fry for 5 minutes more. Add drained noodles, cabbage, and pea pods, mixing gently. Continue cooking, stirring, about 3 minutes. Remove from heat and gently stir in tomatoes.

Transfer mixture to a greased 4-quart casserole. Bake uncovered in a 300° oven for 15 minutes, stirring occasionally. Cool slightly, then cover and chill up to 24 hours. To reheat, bake uncovered in a 300° oven, stirring occasionally, for 35 to 45 minutes or until dish is hot.

While the dish is reheating, melt the butter in a 10-inch frying pan over medium heat. Add egg to pan, quickly tilting pan to spread egg evenly in a thin layer. Cover and cook for about 3 minutes or until eggs are set. Slide omelet out of the pan onto a cutting board; cut into ½-inch-wide strips. Arrange strips in a lattice design on top of the bahmi. Serves 6 as a main dish or up to 10 as a side dish.

Red Pepper Sauce

In a blender or food processor, grind together ½ cup onion, coarsely chopped; 1 tablespoon crushed red pepper; 1 teaspoon *each* ground coriander and ground cumin seed; 2 cloves garlic, minced or pressed; ¼ teaspoon salt; and ¼ teaspoon anchovy paste (optional).

Heat 1 tablespoon salad oil in a small pan over medium-high heat. Add pepper mixture and cook, stirring, 2 minutes. Stir in 1 tablespoon *each* soy sauce and chili sauce; continue cooking for 1 minute, stirring constantly. Remove from heat and cool. If desired, add more red pepper to taste. Cover and chill.

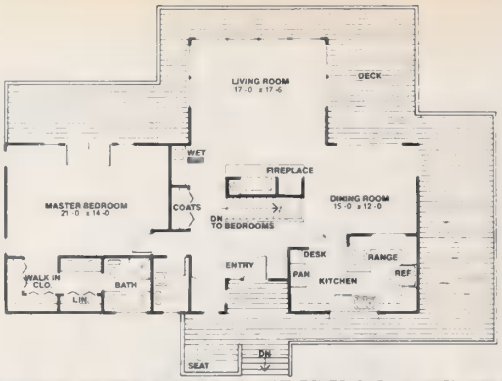
Peanut Sauce

In a small pan, combine 1 cup *each* water and unsweetened coconut; bring to a boil over high heat, then remove from heat and let stand 10 minutes. Strain through a double thickness of cheesecloth, squeezing coconut; reserve liquid (you should have about ⅔ cup) and discard coconut.

Place coconut liquid in a bowl and add 1 cup chunk-style peanut butter, 2 tablespoons chopped onion, 2 cloves garlic (minced or pressed), 1 tablespoon red pepper sauce (recipe above), ¾ teaspoon grated fresh ginger, 1 teaspoon ground coriander, ½ tablespoon brown sugar, 2 teaspoons lemon juice, and ½ cup boiling water. Mix well; cover and chill. If desired, thin slightly with hot water before serving. □

NORMAN A. PLATE

Indonesian buffet *features vegetable-noodle dish. Spicy sauces, raw vegetables, barbecued pork, and steamed rice round out the menu*



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DARROW M

Asparagus, *ricotta, and Swiss cheese combine in airy first course or lunch en*

Unfussy soufflé individual size

Light and puffy and predictable, t individual asparagus soufflés forgo the fussy preparation that traditi soufflés demand. You simply whir the ingredients together in a blen pour into dishes, and bake.

Asparagus Soufflettes

- Grated Parmesan cheese
- 1 bunch (1 lb.) asparagus, tough ends removed
- Boiling water
- 7 eggs
- ⅓ cup heavy cream
- ½ cup shredded Swiss cheese
- 1 teaspoon Dijon mustard
- ½ teaspoon salt
- ¼ teaspoon pepper
- ⅛ teaspoon ground nutmeg
- 1 carton (8 oz.) ricotta
- Sour cream

Butter 4 small soufflé dishes (about 1 size) or 6 dishes (about ⅔ cup size); with Parmesan cheese. Place dishes rimmed baking sheet.

Place asparagus in a frying pan enough boiling water to cover and 5 to 7 minutes or until just tender. Dr rinse with cold water, then pat dry paper towels. Cut off and reserve 4 of the nicest tips; cut spears into piec

In a blender, combine the eggs, cre Swiss cheese, mustard, salt, pepper, nutmeg. Whirl until smooth. W blender running, add about ⅓ of asparagus pieces at a time. Then gra ally add the ricotta in large spoonf whirling until smooth.

Pour mixture into dishes. Bake in a 3 oven until a knife inserted in the cen almost comes out clean, about 25 m utes. Let cool about 5 minutes. Top e with a dollop of sour cream and asparagus tip. Serves 4 to 6.

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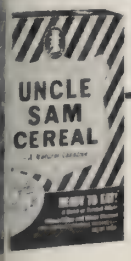

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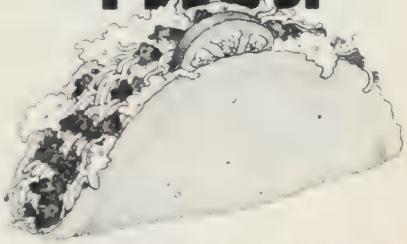

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Creamy custard *topping is spooned over zucchini moussaka*

DAVID SI

Each serving *of baked casserole reveals layers of spicy ground meat sauce and vegetables*

This moussaka is seasonally adjustable

A widely popular Greek dish called moussaka (moo-sah-*kah*) is made with layers of meat and vegetables, topped with a custard-like sauce. In this country, eggplant is the vegetable most often used in making this casserole, but in Greece, cooks frequently substitute zucchini or potatoes for the eggplant.

Like the Greeks, you can enjoy moussaka year-round with this adaptable recipe. To make it, cook the zucchini, potatoes, or eggplant using a simple oven-frying technique; prepare the cinnamon-spiced meat sauce and the custard topping; then assemble in layers.

Once the moussaka is assembled, you can store it in the refrigerator and bake it the next day. To complete the menu, offer rolls, a green salad, and dessert.

Seasonal Moussaka

- Oven-fried zucchini, potatoes, or eggplant (directions follow)
- 2 pounds ground lamb or ground beef
- 2 large onions, chopped
- 2 cloves garlic, minced or pressed
- 2 tablespoons all-purpose flour (omit if using potatoes)
- 1 teaspoon *each* ground cinnamon, oregano leaves, and salt
- ½ teaspoon *each* ground nutmeg and pepper
- ½ cup *each* catsup and water
- ¾ cup dry red wine
- 1 can (14½ oz.) Italian-style tomatoes
- ½ cup chopped parsley
- ½ cup *each* butter or margarine and all-purpose flour, unsifted
- 4 cups milk
- 6 eggs
- ¼ teaspoon *each* ground nutmeg, white pepper, and salt
- 1 package (8 oz.) fresh Parmesan cheese, grated

First, cook the vegetable of your choice according to the directions that follow.

For meat sauce, crumble ground lamb or beef into a 12-inch frying pan or Dutch oven. Add onions and garlic and cook, stirring, over medium-high heat until onions are limp. Spoon off fat.

Stir in the 2 tablespoons flour (if used), the 1 teaspoon cinnamon, oregano, and salt, and the ½ teaspoon nutmeg and pepper. Slowly stir in the catsup, water, wine, tomatoes (cut into small pieces), and parsley. Cook over medium-high heat, stirring frequently to prevent sticking, for 15 minutes or until juices evaporate and a thick sauce forms; set aside.

For custard topping, melt the butter in a 3-quart saucepan over medium heat; remove from heat and stir in the ½ cup flour; gradually blend in the milk. Cook, stirring, until a thick sauce forms.

Beat eggs with the ¼ teaspoon nutmeg, white pepper, and salt; gradually add 1 cup of the hot white sauce. Then stir egg mixture into the remaining white sauce. Cook, stirring constantly, over medium heat for 1 minute. Remove from heat; stir in the cheese.

Arrange half the cooked vegetables in a greased 9 by 13-inch casserole dish; spoon meat sauce on top, spreading evenly. Arrange remaining vegetables on meat sauce, and spread custard over all. Cover and chill if made ahead.

Bake uncovered in a 350° oven for 50 minutes (60 minutes if refrigerated), or until custard is bubbly and center appears firm. Let stand 15 minutes before cutting into squares. Serves 8 to 10.

To cook the zucchini, place 1 tablespoon *each* butter and olive oil (or salad oil) on each of two large rimmed baking sheets. Set in a 400° oven until bu melts, then rotate sheets to distrib mixture evenly. Cut 10 medium-s zucchini (about 2¾ lbs.) in half leng wise, then cut in half again crossw Arrange zucchini in a single layer baking sheets, turning to coat b sides with fat. Bake flat side down the bottom 2 racks of a 400° oven 10 minutes. Switch position of tra bake 10 to 12 minutes longer or u flat sides are browned and zucchini soft; drain on paper towels.

To cook the potatoes, place 1½ tab spoons *each* butter and olive oil on ea of 2 large rimmed baking sheets; set a 400° oven until butter melts, then tate sheets to distribute fat evenly. C 2 pounds large unpeeled boiling po toes into ⅜-inch-thick slices and range in a single layer on baking shee turn to coat both sides with butter a oil mixture. Bake uncovered on the lo est 2 racks of a 400° oven for 15 mi utes, turning slices once. Switch positi of trays; continue baking, turning slic once, for 15 minutes, or until potato are tender. Drain on paper towels.

To cook the eggplant, place 2 tabl spoons *each* butter and olive oil on ea of 2 large rimmed baking sheets; pla in a 400° oven until butter melts, th rotate sheets to distribute mixture. C 2½ to 2¾ pounds (2 large) unpeel eggplant into ½-inch-thick round slice arrange slices in a single layer on bakin sheets, turning to coat both sides wit fat. Bake uncovered on the lowest racks of a 400° oven for 15 minute turning slices once. Switch positions trays and continue baking, turning slice once, for 15 minutes, or until eggpla is soft. Drain on paper towels.

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DARROW M. WATT

sh flowers *and satiny mocha frosting* *orate this four-layered cake*

Four tiers of mocha-nut

cial occasions often call for a large e like the four-tiered one you see e. Full of raisins and chopped nuts, moist, mocha-flavored cake easily ves 25 to 30 guests.

u bake the oversize cakes ahead of e in two standard-size 9- by 13-inch ns, then store them in the freezer. For iest handling, cut the layers into tiers l frost them while still frozen, on the rning of your party or the day before.

red Mocha-Nut Cake

4 cups sugar
cup unsweetened cocoa
4 cups strong coffee
2 cups raisins
cups all-purpose flour
1 teaspoon *each* salt and soda
2 teaspoons *each* ground cinnamon, nutmeg, and cloves
1 cup (½ lb.) butter or margarine
1 teaspoon vanilla
4 eggs
2 cups chopped nuts
Mocha frosting (recipe follows)

a 3- to 4-quart pan, combine the sugar d cocoa; stir in the coffee and raisins. ing to a boil, then reduce heat and nmer 10 minutes. Cool, then pour mix- re through a wire strainer to separate isins. Reserve coffee mixture. Mix the isins with ⅓ cup of the flour and set ide. Mix remaining 4 cups flour with e salt, soda, cinnamon, nutmeg, and oves and set aside.

a large bowl (at least 4 quarts), beat gether the butter and vanilla until eamy. Beat in the eggs and 1 cup of e flour mixture until creamy. Beat in

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the coffee mixture alternately with remaining flour mixture until smo Stir in the raisin mixture and nuts.

Grease two 9- by 13-inch pans, line bottoms with waxed paper, and gre the paper. Divide batter evenly betw prepared pans and bake in a 350° o (stagger pans on middle and upper o racks) for 40 minutes or until tops sp back when lightly touched. Cool 10 n utes in pans, then invert on cloth-cove racks, peel off paper, and turn each r side up on a rack to cool complet Wrap cakes separately and freeze made ahead or for easier handling.

To assemble, place one cake on a serv plate or board; spread top and sides w about ½ of the mocha frosting. Cut s ond cake in half crosswise and center of the 6½- by 9-inch pieces lengthw on top of large cake; frost top and si Cut remaining cake in half crosswise a center one of the 4½- by 6½-inch pie lengthwise on top for the third tier; fr top and sides. Finally, cut the last pi of cake in half crosswise and center of the 3- by 4½-inch pieces lengthw on top of cake; frost its top and si (save remaining piece of cake for ot uses). Store cake in a cool place u you're ready to serve.

To serve, cut layers one at a time, sta ing with top layer and lifting off in vidual servings. Makes 25 to 30 servin

Mocha frosting. Dissolve 3 tablespoo instant coffee in 1 tablespoon hot wat cool. With a mixer, beat 1½ cups (¾ l butter or margarine until creamy. Mix 3 eggs and 1 tablespoon vanilla u blended. Stir together 4¾ cups unsift powdered sugar and ¾ cup unsweeten cocoa; alternately beat into butter m ture with the coffee mixture until smoo and creamy.

Thank you for your favorites

We've received a mountain of mail in response to a request published in the January and March issues of *Sunset*, which asked readers to tell us about their favorite *Sunset* recipes. Letters continue to pour in, and it's nice to know how enthusiastic our readership is.

Because of the sheer volume, however, we are unable to send individual replies, much as we wish we could. But please know that your votes are being counted and your comments taken seriously as we compile the next volume of *Sunset's Favorite Recipes.*

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DAVID STU

Coolers and cartons *become picnic buffet. Be simple, with paper plates and plastic utensils. Or go fancy, with china and silver*

Picnic ideas tested on the river . . . pâté, melon soup, chicken, brownies

When summer keeps the group outdoors, keep this excellent picnic in mind. Tested by our adventurous river floaters (see page 102), these dishes can be made ahead and chilled, leaving the cook free to paddle and splash with the rest of the group. Each recipe serves six to eight and is easily multiplied for a crowd.

Chicken Liver Pâté

Offer an assortment of crackers such as stone-ground wheat, sesame, or melba rounds with this delicately seasoned pâté.

In a medium-size pan, combine ½ pound chicken livers, 1 large onion (sliced), 2 cups regular-strength chicken broth, and ½ teaspoon salt. Bring to a boil over high heat, then simmer, covered, for 10 minutes. Remove from heat and let stand 10 minutes. Drain, reserving liver and onions. (Use broth for other purposes.)

In a blender or food processor, whirl drained chicken livers and onion until smooth. Cut ½ cup butter or margarine into large chunks and add to liver mixture; whirl until well blended. Add 2 teaspoons brandy (optional), 2 tablespoons chopped parsley, ¼ teaspoon pepper, and 1 teaspoon thyme leaves; whirl until very smooth. If desired, add salt to taste. Spoon into a container, cover, and chill at least 24 hours or up to one week. Makes 1¾ cups.

Melon Soup with Strawberries

Frozen strawberries chill this melon soup. Sip as an appetizer or for dessert.

- 1 basket (about 2 cups) strawberries
- 4 large cantaloupes, rind and seeds removed
- 4 cups orange juice
- ⅔ cup lime juice
- 3 to 4 tablespoons honey
- 1 bottle (750 ml.) champagne or 1 bottle (28 oz.) lemon-lime carbonated beverage

Wash and hull berries; cut large ones in half. Arrange in a single layer on a baking pan and freeze, uncovered, until solid. Package in a plastic bag to store until needed.

Cut cantaloupe into large chunks; whirl in a blender or food processor until smooth. Add orange juice, lime juice, and honey; whirl until well blended. Pour into a 6-quart thermos or portable container and chill, covered, at least 3 hours or as long as 24 hours. Add frozen berries as you leave for the picnic site (or at serving time, if eating at home). Just before serving, stir in champagne. Makes 6 quarts.

Parsley and capers *give color and tang to creamy dip for artichokes*

Herb-Butter Broiled Chicken

Butter-broiling keeps this chicken moist and succulent; lemon peel adds a subtle tang to the herb seasoning.

For each chicken, combine 2 tablespoons butter or margarine, 3 tablespoons minced shallots or onion, ½ teaspoon *each* thyme leaves and rubbed sage, ¾ teaspoon tarragon leaves, ¼ teaspoon salt, ⅛ teaspoon pepper, and 1½ teaspoon grated lemon peel. Set aside.

Rinse and pat dry a 2½- to 3-pound broiler-fryer, quartered. With a sharp knife, cut small slits in the skin over

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Sam J. Sebastiani

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breasts, thighs, and wings. Using a ¾ of the butter mixture, push bi butter in between skin and flesh, d ing it evenly between chicken piece

Melt the remaining butter mixture low heat and stir in ¼ cup white or regular-strength chicken broth. range chicken quarters, skin side d on rack in a broiler pan. Broil 6 inches from heat for 20 minutes, ba several times with the butter mix Turn chicken pieces over and con broiling, basting often, 15 to 20 mi longer or until thigh meat is no lo pink when slashed. Remove from and cool slightly, then cover loosely foil and chill 4 to 24 hours.

To transport, wrap each quarter in h foil. Pack in a plastic container or ethylene case. If you're river-floa enclose foil-wrapped quarters in pl bags to guard against wetness.

Each chicken serves 4.

Lemon-Capers Dip for Artichokes

Offer cooked, chilled artichokes or vegetables with this zesty dip.

In a blender or food processor, pla egg, 1½ tablespoons *each* lemon j and white wine vinegar, 1 teasp Dijon mustard, 1 clove garlic (mi or pressed), 6 anchovy fillets (coar chopped), and 1 teaspoon grated le peel. Whirl on high speed until blended.

With motor running, slowly add 1 salad oil in a thin stream. Add 3 ta spoons chopped parsley and 1 tablesp capers; whirl just until blended. Co and chill at least 24 hours or as long 1 week. Makes 1½ cups.

Date Brownies

Chock-full of dates and nuts, th brownies may disappear before lunch

- 2 ounces unsweetened chocolate
- ½ cup butter or margarine
- 1 cup sugar
- 2 eggs, beaten
- 1 teaspoon vanilla
- ½ cup all-purpose flour
- ¼ teaspoon *each* salt and baking powder
- ⅔ cup chopped dates
- 1 cup chopped walnuts

In the top of a double boiler, melt ch olate and butter over simmering wat set aside. In the small bowl of a mix combine sugar and eggs; beat until ve light in color. Beat in vanilla and t chocolate mixture.

In another bowl, combine flour, salt, a baking powder. Stir into batter, blendi well. Add dates and nuts, stirring just blend. Pour batter into a greased 9-inc square pan. Bake in a 325° oven for to 30 minutes or until a toothpick in t center comes out clean. Cool complete on a wire rack; cut into 36 square Makes 36 brownies.

Improving on the French.

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Ingredients assertive, if not aggressive, work well together

A **sauce** with four cloves of garlic, curry powder, paprika, cilantro, teriyaki sauce, and brandy? It's neither the universal solvent nor a safe-cracking formula. It is *Chef* John R. Wilson's sauce for shrimp, and it is delicious.

The ingredients, each assertive if not downright aggressive, work well together, just as hockey players, often individualistic to a fault, can still form a smoothly functioning team—a whole far greater than the sum of its parts.

This sauce is neither Oriental, Mediterranean, nor Continental; although it has elements of all three, it is decidedly original. An additional virtue: though richly flavored, it does not overpower the shrimp but enhances their shrimpiness.

Make a special effort to find fresh coriander (cilantro). It makes a great contribution to the sauce without dominating it. (We mention this only because many people have been put off by old-fashioned cook books and herbals that have given the foliage a bad name, asserting that only seeds were useful. Any Oriental or Mexican cook knows better.)

JR's Shrimp Flambé

- 3 tablespoons butter or margarine
- 4 cloves garlic, minced or pressed
- 1 tablespoon curry powder
- 1 teaspoon paprika
- ⅔ cup thinly sliced green onion
- ¼ cup finely chopped fresh coriander (cilantro)
- 2 pounds medium-size shrimp (30 to 32 count), shelled, deveined, and butterflied
- ¼ cup *each* prepared teriyaki sauce and water
- ¼ cup brandy, warmed
- 6 to 8 slices French bread, buttered and toasted

In a large chafing dish or other stovetop-to-table serving container, melt the but-

ter over medium heat; add the garlic curry powder and cook 1 minute. St the paprika, onion, coriander, shrimp. Cook, stirring, until shrimp pink, 4 to 5 minutes. Stir in teri sauce and water and heat through.

Bring to the table; carefully pour w brandy over the surface and ignite. W flames subside, spoon shrimp and ju evenly over toast. Makes 6 to 8 servi

J R Wilson

Bellevue, Wash

There is no end to the ingenuity of z chini cooks. They have given us br cakes, fritters, even a pizza crust page 153 of the March 1981 *Sun* And now, thanks to *Chef* Mort Gre we have been given a zucchini salad.

Shredded zucchini, well chilled, ha surprisingly crisp texture; apple chu and green onions offer flavor and c surprises. A tart-sweet mayonnaise dr ing with caraway seeds bathes the wh *Chef* Greene calls it, with considera justification (but with deplorable para masia):

The Best Zucchini You Ever Slaw

- ½ cup mayonnaise
- 3 tablespoons cider vinegar
- 1 tablespoon sugar
- 1 teaspoon caraway seed
- 4 cups coarsely shredded zucchini
- ¼ cup thinly sliced green onion, including tops
- 2 to 3 medium-size red- or green-skinned apples
- Salt and pepper

In a small bowl, stir together the may naise, vinegar, sugar, and caraway see

In a large bowl, combine the zucch and green onion. Core apples, peel if sired, and cut into ½-inch chunks; y should have 3 cups. Add apple to z chini mixture, pour dressing over all, a mix well. Season to taste with salt a pepper. Cover and chill for 2 to hours. With a slotted spoon, transfer a serving bowl. Makes about 6 serving

Mort Greene

Encino, Calif.

Benson Eschenbach's North Coast Spri Salad is pretty to look at and is adventure for the teeth as well as t palate. It affords a variety of rich biti experiences—the crackle of nuts, t

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crunch of *al dente* vegetables, and the subtle evasiveness of pimiento.

The Eschenbachs have a vegetable garden, and sugar snap peas and broccoli are two of their reliable spring crops. If you can't find sugar snap peas (preferable), use Chinese pea pods. The marinade brings a main-course complexity of flavor to the vegetables, while the shrimp and mayonnaise make the dish hearty enough for a one-dish lunch.

North Coast Spring Salad

- ½ pound broccoli
- ½ pound edible-pod peas
- 2 tablespoons salad oil
- 2 cloves garlic, minced or pressed
- ¾ teaspoon minced fresh ginger
- ½ pound mushrooms, thinly sliced
- ⅓ cup regular-strength chicken broth
- 1 tablespoon soy sauce
- 1 tablespoon oyster sauce (optional)
- ½ teaspoon sugar
- 1 can (4½ oz.) small shrimp, drained
- 1 jar (2 oz.) sliced pimiento, drained
- ½ cup mayonnaise
- Crisp lettuce leaves
- ¼ cup coarsely chopped salted cashews or toasted slivered almonds

Discard tough broccoli ends; peel stems, cut across into ⅛-inch slices, and cut flowerets into ¼-inch slices. Rinse peas, remove strings, and cut each across in half. Set aside.

Heat the oil in a wok or wide frying pan over high heat; add the garlic and ginger and cook, stirring, for 1 minute. Add broccoli, peas, and mushrooms and cook, stirring constantly, for 3 to 4 minutes or until vegetables are just tender-crisp to bite. Remove from heat.

Stir together the chicken broth, soy, sugar, and oyster sauce, if used. Pour over vegetables, then stir in the shrimp and pimiento. Cool, cover, and refrigerate for 4 hours or as long as overnight.

To serve, discard liquid and stir in mayonnaise. Spoon over crisp lettuce leaves and garnish evenly with nuts. Makes 4 to 6 servings.

Point Reyes Station, Calif.

Skillful management of leftovers is one test of the truly accomplished chef. Anyone can acquire a big reputation if he turns out a properly pantalooned rack of lamb or a whole salmon masked in mayonnaise. But the true kitchen hero is the man who can make something tasty out of the dank, chilly, plastic-enshrouded contents of refrigerator dishes.

Part soufflé, part omelet, part sandwich, part quiche, John Adams's meal-in-a-dish will help you clean out your refrigerator before going on vacation or bef your next big grocery-shopping trip. will use all your leftovers and requ very little more—bread, cheese, eg mustard, all usually at hand. At me end, it will leave you with just one b ing dish to wash. (You will no doubt ha washed the refrigerator dishes alread

Adams's Meal-in-a-Dish

- 4 slices firm white or whole-wheat bread
- Butter or margarine
- Prepared mustard
- 2 cups cooked vegetables, chopped and well drained (green beans, carrots, mushrooms, broccoli, or a combination)
- ¼ cup thinly sliced green onion, including tops
- 1 to 1½ cups diced cooked ham, chicken, or turkey
- 1 cup shredded Cheddar or Swiss cheese
- 4 eggs, slightly beaten
- 1½ cups milk
- 1 teaspoon Worcestershire
- ¼ teaspoon liquid hot pepper seasoning
- ½ teaspoon salt
- Paprika

Trim crusts from bread, if desired, a spread lightly with butter and mustar then cut each slice into 4 triangles. A range 8 of the triangles, mustard side u in a well-buttered 8-inch-square baki

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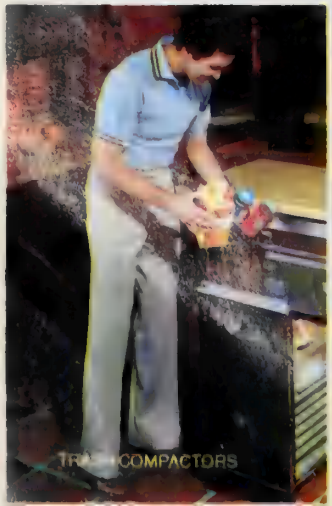
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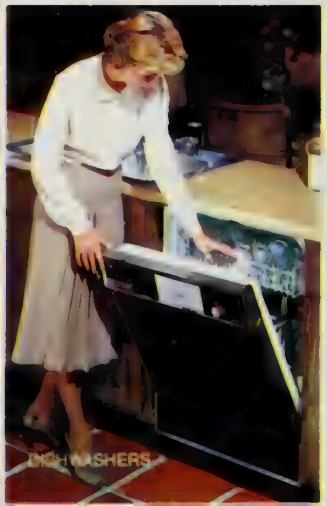
DISHWASHERS

dish. Evenly top with your choice of etable, the onion, meat, and cheese. I oratively arrange remaining bread angles, mustard side down, on top.

Stir together the eggs, milk, Worce shire, hot pepper seasoning, and Pour over bread; press lightly with a to be sure egg mixture is absor Sprinkle with paprika. Cover and ch hours or as long as overnight.

Bake, uncovered, in a 375° oven fo to 40 minutes or until set when dis gently jiggled. Let stand 10 to 15 min before serving. Makes 4 to 6 servings

John L. Adams

Huntington Beach, Cali

There is no longer a secret to Chin wok cooking; by now the entire civili world knows that it involves extend meat by blending it with vegetables t have been quick-cooked at high heat then flavoring the whole with numer selections from an enormous battery spices and sauces.

The following recipe is meatier th most, and the sirloin tips mellow i marinade that contains dry red w rather than sweeter Chinese formu usually based on sherry. Ginger and h sin sauce are the mystery ingredients.

Stir-fry Sirloin Tips

About 1 pound beef sirloin tips
¼ cup dry red wine
2 tablespoons soy sauce
1 clove garlic, minced or pressed
1 teaspoon minced fresh ginger
2 tablespoons salad oil
1 cup thinly sliced celery
½ pound mushrooms, thinly sliced
1 can (8 oz.) water chestnuts, drained and thinly sliced
½ cup thinly sliced green onion, including tops
2 tablespoons hoisin sauce
Hot, cooked rice

Thinly slice meat into strips. Stir t gether the wine, soy, garlic, and ginge pour over meat, cover, and refrigera for 2 to 4 hours.

Heat oil in a wok or large frying p over high heat; add meat and marinad and cook, stirring constantly, for 3 mi utes or until meat is no longer red. Li out meat and set aside.

At once add the celery, mushroom water chestnuts, green onion, and hoisi Cook, stirring constantly, for 2 to 3 mo minutes or until vegetables are tende crisp to bite. Return meat and any liqui and stir until heated through. Serve im mediately over hot cooked rice. Make 4 servings.

Bernd Fries

Novato, Calif.

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ITALIAN RICE SALAD

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- ¾ cup mayonnaise
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- 2 Boil-in-Bags Success® Rice, cooked according to package directions

In large bowl, blend Italian dressing with mayonnaise; stir in vegetables. Add rice and toss well; pack into 5-½ cup ring mold or bowl; chill. Makes about 8 servings.

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LAYERED SPINACH SALAD

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3 crisply cooked bacon slices, crumbled
1½ qts. torn spinach
2 cups mushroom slices
1 cup red onion rings
10-oz. pkg. frozen peas, cooked, drained
½ cup KRAFT Real Mayonnaise
½ cup dairy sour cream
1 teaspoon sugar

Combine ½ cup cheese and bacon; mix well. In 2½-quart bowl, layer spinach, cheese mixture, mushrooms, onions and peas. Combine mayonnaise, sour cream and sugar; mix well. Spread over salad to seal. Sprinkle 2 tablespoons cheese over top. Cover; refrigerate overnight. **8 servings**

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It doesn't stop at topping spaghetti.

PARMESAN TACO SALAD

lb. ground beef
cup chopped onion
cup KRAFT Barbecue Sauce
cup (2 ozs.) KRAFT Grated Parmesan Cheese

• • •

cups shredded lettuce
cups chopped tomatoes
cup dairy sour cream
-oz. can chopped green chili peppers, drained
¼ cup (1 oz.) KRAFT Grated Parmesan Cheese
Tortilla chips

'own meat, drain. Add onion. ook until tender. Stir in bar- ecue sauce and cheese over, simmer 10 minutes over w heat, stirring occasionally.

ombine lettuce and tomatoes. ix lightly. Combine sour ream, chili peppers and cheese, mix well. For each salad op tortilla chips with lettuce mixture, meat mixture and our cream mixture. **4 servings**

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NORMAN A. PLATE

Reminiscent *of salade niçoise, tender fish and vegetables are marinated for a light warm-weather meal*

Seafood salads . . . with inexpensive fish

Must a seafood salad be an expensive homage to shellfish? Not if you use cool morsels of tender but firm-fleshed fish—such as red snapper, cod, perch, or turbot—instead of mountains of crab or shrimp.

For any of our three recipes, you can bake or poach fresh or frozen fillets ahead, then chill them until you are ready to assemble the salad ingredients. Or, if your prefer, substitute any leftover fish you have on hand.

Niçoise-style Salad

- 4 to 6 small thin-skinned potatoes
- ½ pound fresh green beans
- 2 cups flaked, cooked fish
- ½ cup bottled Italian-style dressing
- Lettuce leaves
- 2 to 3 large tomatoes, cut in wedges
- 3 or 4 hard-cooked eggs, cut in wedges
- Canned anchovy fillets (optional)

Scrub potatoes and steam over boiling water until tender when pierced with a fork, about 25 to 30 minutes. Remove from pan and cool to room temperature.

Diagonally slice beans into 1½-inch pieces; steam over boiling water until tender-crisp, about 15 minutes. Place beans and potatoes in a bowl, add ¼ cup of the dressing, and stir to coat well. Cover and chill. In another bowl, combine fish and remaining dressing; stir carefully to coat fish. Cover and refrigerate for 1 to 2 hours.

To serve, arrange lettuce leaves on a large platter. Remove vegetables and fish from the marinade with a slotted spoon, reserving marinade. Place beans, potatoes, fish, tomatoes, and egg wedges in separate mounds on top of lettuce. Top fish with anchovies, if desired. If made ahead, cover and chill. Pass reserved marinade at table. Makes 4 servings.

Fruit and Fish Salad

In a small bowl, mix together ½ cup mayonnaise, 2 tablespoons *each* unflavored yogurt and finely chopped onion, 1 teaspoon lemon juice, ¼ teaspoon *each* curry powder and grated fresh ginger, and ½ teaspoon *each* salt and sugar. Set aside.

In a large bowl, place 4 cups flaked, cooked fish; ½ cup sliced celery; and 2 cups pineapple or cantaloupe (cut into 1-inch cubes) or 2 cups fresh peac Add curry dressing and stir carefully coat ingredients. Cover and chill 1 t hours. Just before serving, mix in ¼ Spanish peanuts. Serve in lettuce c and garnish with additional peanuts desired. Makes 4 servings.

Colorful Vegetable and Fish Salad

Wash and trim 1 large bunch (abou lb.) broccoli into small flowerets; ste over boiling water until tender-cri about 7 minutes. Remove from p cover, and chill.

In a large bowl, place 1 basket che tomatoes; the chilled broccoli; 3 cu flaked, cooked fish; 1 can (6 oz.) who pitted medium-size ripe olives (drained and 1 cup sharp Cheddar cheese, c into ½-inch cubes. Cover and chill least 1 hour. Pour dressing over (reci follows) and toss carefully. Serves 4.

Vinaigrette dressing. In a containe combine ⅓ cup olive oil or salad oil. tablespoons wine vinegar, and 2 te spoons *each* finely chopped red onic and Dijon mustard. Shake to blend. made ahead, cover and refrigerate.

The Recipe.

Kraft marshmallow creme, the secret ingredient, and Philadelphia Brand Cream Cheese, the cream of cheese, combine to make this dessert delicious, elegant and so fabulously easy.

The Dip

1 8-oz. pkg. Philadelphia Brand cream cheese
1 7-oz. jar Kraft marshmallow creme
Assorted fruit

Combine marshmallow creme and softened cream cheese; mix until well blended. Serve with strawberries.

Look for Kraft marshmallow creme in the baking or toppings section of your supermarket.

KRAFT

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The Dip.

The Secret.

SAY CHEESE!
over 100 imported & domestic varieties
Lucky
DISCOUNT SUPERMARKETS

DARROW M.

Team almond cream *with crisp cookies and strawberries or other fresh fruit*

Molded almond cream is tempter

Cool and smooth describe this mold almond-flavored cream. For a light d sert, serve it with sliced fruit and cooki

Molded Almond Cream

- ½ cup sugar
- 1 package unflavored gelatin
- ½ cup hot water
- 1 cup half-and-half (light cream) or milk
- 1 cup sour cream
- 1 teaspoon *each* almond flavoring and lemon juice
- Sliced or whole strawberries, sliced apricots, bananas, oranges, kiwis peaches, or nectarines
- Thin, crisp ginger, shortbread, or butter cookies (optional)

In a small pan, blend together the sug and unflavored gelatin. Add water a mix well. Let stand about 5 minute then bring to a full rolling boil, stirri constantly.

Remove sugar mixture from heat, th gradually pour in half-and-half. In bowl, mix the sour cream with the a mond flavoring and lemon juice; grad ally beat in sugar mixture until smoot Pour into a 2½- to 3-cup mold. Cov and chill until set, at least 4 hours.

Dip mold in hot water until edges of th cream begin to liquefy—just a few se onds. Dry mold and invert onto servin dish. To serve, offer fresh fruit an cookies to eat alongside, or spoon th cream onto a cooky and top with fru to eat. Makes 6 to 8 servings.—*E. A. Las Cruces, New Mexico.*

Make a meal for summer.

Enjoy simple pleasure: CRACKER BARREL cheddar and juicy slices of fresh peaches, plums and nectarines. Add your favorite crackers and you have a summertime meal that's perfect for lunch in the park, a late evening supper or a hearty snack, anytime.

Cracker Barrel cheddar & California Summer Fruits

California Tree Fruit Agreement

RAFT

DAVID STUBBS

From pasta-like squares *to puffy cheese- and chili-filled appetizers made for salsa dipping*

Appetizer packages...won ton skins

Won ton skins are the start for these three appetizers—they're filled with seafood, salami, or green chili and cheese. Because you fold the dough squares into triangular packages rather than the traditional Chinese bundles, they hold a generous amount of filling.

The recipe makes 6 to 7 dozen appetizers. You can fill and fry them all at once, then freeze some to reheat later, if you wish. We suggest green salsa or tartar sauce for dipping.

Look for won ton skins or wraps in the produce section or frozen food case of your supermarket. They may not be labeled, but you can recognize them by the shape—3-inch squares of pasta-like dough stacked in 1-pound packages.

Crispy Won Ton Turnovers

Seafood, salami, or chili-cheese filling (recipes follow)
1 package (about 1 lb.) won ton skins
1 egg, beaten
Salad oil
1 can (about 7 oz.) green chili salsa or 1 jar (about 6 oz.) tartar sauce, optional

Make the filling of your choice. Mound a rounded teaspoon of filling in the center of a won ton skin; brush all four edges lightly with egg. Fold skin in half diagonally; pinch edges together to seal. Place the filled won tons on trays and cover with clear plastic wrap while you fill the remaining skins.

To fry, heat about 1½ inches salad oil to 350° on a deep-fat frying therm eter. Add about 6 filled won tons t and fry for 1 to 2 minutes or golden brown, turning to cook ev Lift won tons from oil with a spoon; drain on paper towels. Keep in a 200° oven until all are cooke cool, wrap, and freeze. To reheat range frozen won tons in a single in a shallow pan and bake, uncov in a 350° oven for 15 minutes or crisp. Serve with salsa for dippin desired. Makes 6 to 7 dozen.

Seafood filling. In a medium-size b combine 2 cans (6½ oz. *each*) drained, *or* 4 cans (about 6½ oz. minced clams, drained; 1 can (abo oz.) water chestnuts, chopped; ⅔ thinly sliced green onion, tops inclu 1 cup shredded Cheddar cheese; 1 spoon grated fresh ginger; and ¼ spoon salt. Mix well.

Salami filling. Mix together 1½ finely chopped salami (6 oz.); 1⅓ ¼-inch cubes jack cheese (about 7 1 can (about 2¼ oz.) sliced ripe ol drained; ½ teaspoon garlic powder; 1 teaspoon oregano leaves.

Chili-cheese filling. Cut about 1 po jack or Cheddar cheese into ½- by by 1-inch strips to make 3 cups. Mix cheese with 2 cans (about 7 oz. e diced green chilies, drained.

110 ways to bake someone happ

The Fleischmann's® Bake-it-easy Yeast Book shows yo how simple and satisfying it can be to bake delicious family favorites yourself. Imagine serving Soft Pretzels you baked in your own oven! Or your own English Muffins, Jelly Doughnuts, Pecan Brittle...even Croissants! Order a copy now so you'll be ready for th big baking season ahead.

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ATOES.

one loves potatoes, especially in a slimming salad! Enjoy w calorie goodness with our reduced calorie dressings; the end of KRAFT Reduced Calorie Creamy Italian with real ream; and KRAFT Reduced Calorie Zesty Italian with real ll pepper and that just-right blend of spices.

N STYLE POTATO SALAD

ne 1 qt. chopped cooked potatoes, 1 cup celery slices, ½ ch zucchini strips, chopped red pepper, KRAFT Reduced e Creamy Italian Dressing, and ¼ cup green onion slices; hly. Chill. Serve in lettuce-lined bowls.

TRY FRENCH POTATO SALAD

8-oz. bottle KRAFT Reduced Calorie Italian Dress- er 2 cups chopped cooked potatoes, 1 cup d green beans and ½ cup pitted ripe olives. ; marinate in refrigerator 2 hours. Com- egetables, 1 6½-oz. can tuna, drained, and 1 qt. torn assorted greens. ghtly. Garnish with hard- d egg wedges.

THE POTATO SCAMP
KRAFT
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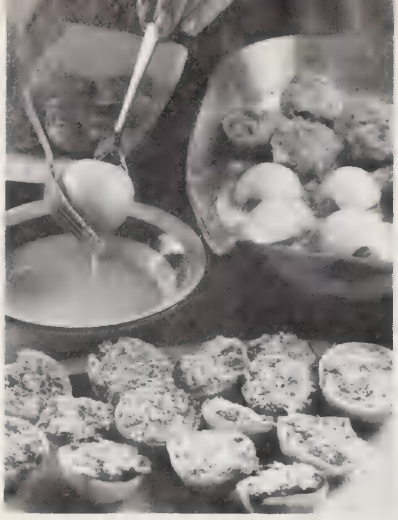
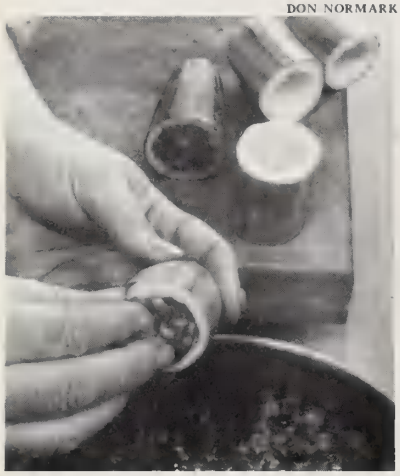


Meat-stuffed *onion shells are coated with matzo meal, then dipped in beaten egg and lightly fried*

DON NORMARK



Peeled zucchini *are cut into pieces, then hollowed out and filled with meat*

DOUG W

Fanny's *stuffed onions, zucchini, and tomatoes bake in tomato sauce. For a satisfying family meal, serve the casserole with rice*

Fanny's masterpiece . . . meat-stuffed vegetables

Known for her Sephardic Jewish cooking, Fanny Roberts of Seattle recently prepared one of her specialties for us—onions, tomatoes, and zucchini stuffed with a savory meat filling and baked together in a vegetable sauce.

Her recipe calls for all three vegetables, but you could stuff just one kind or a combination of your choice.

Fanny's Stuffed Vegetables

- Meat filling (directions follow)
- 2 or 3 medium-size zucchini
- 1 can (8 oz.) tomato sauce
- 3 medium-size tomatoes
- 2 medium-size onions
- 1 tablespoon salad oil
- About ¼ cup matzo meal or finely crushed soda crackers
- 1 egg, beaten
- Chopped parsley (optional)
- Hot cooked rice

Prepare meat filling as directed at right. Cut off zucchini ends, peel, then cut into 2- or 3-inch lengths. With a thin knife or vegetable peeler, hollow out the zucchini pieces, leaving a ⅛- to ¼-inch-thick shell. Chop the zucchini centers and combine in a saucepan with the tomato sauce. Stuff each zucchini piece with some of the meat filling and set them aside.

Core each tomato, taking care not to cut too deeply. Cut tomatoes in half; scoop out seeds and pulp and add to tomato sauce. Stuff each half with meat.

Cut onions in half through stem ends. Carefully separate the outer 3 or 4 layers of onion to make about 12 shells. Stuff each onion shell with meat. Chop inner portions and add to tomato sauce. Simmer the sauce, uncovered, until thick, about 20 minutes; stir often. Pour sauce into a 9- by 13-inch baking dish.

Heat oil in a frying pan over medium heat. Meanwhile, sprinkle matzo meal on a piece of waxed paper. Coat on shells with crumbs, then dip in the bea egg. Place, meat side down, in the fry pan. Cook until lightly browned, ab 2 to 3 minutes. Arrange, meat side in baking dish.

Add zucchini to frying pan and co turning, until lightly browned, abou minutes. Stand zucchini pieces upri in baking dish; also add tomato halv Cover dish with foil.

Bake in a 350° oven for 20 minutes. move foil and bake 10 to 15 minu longer or until zucchini is tender wh pierced. Sprinkle with parsley and se with rice. Makes 4 servings.

Meat filling: Wet 3 slices of bread w water, then squeeze out any excess. T into small pieces. Combine in a b with 1¼ pounds lean ground beef, cup chopped parsley, ½ teaspoon s ¼ teaspoon pepper, and 2 beaten eggs

Salmon Love Boats

...from KRAFT Real Mayonnaise and California Avocados.

Avocados, the love-food from California, make the perfect vessel for this delicate salmon salad. Top with a dill sauce made rich and creamy with KRAFT Real Mayonnaise and you have a great catch for a special luncheon or light supper.

SALMON LOVE BOATS

1 7¾ oz. can salmon, drained, flaked
1 tablespoon chopped onion
2 teaspoons chopped chives
1 hard-cooked egg

• • •

2 California Avocados, halved and pitted

• • •

Dill Sauce

Combine salmon, onion, chives and chopped egg white. Place avocados on individual lettuce-covered plates. Fill with salmon mixture. Top with Dill Sauce; garnish with sieved egg yolk.

DILL SAUCE

½ cup KRAFT Real Mayonnaise
¼ teaspoon dill weed

Combine ingredients; mix well.

4 servings

Variation: Substitute one 6½ oz. can tuna for salmon.

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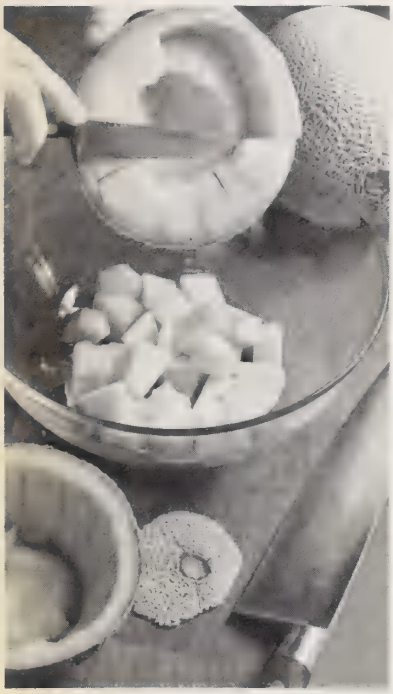
Food from California
California Avocado Commission

Surprising taste *combination makes this supper special: melon bowls hold tender bites of fish and sweet cantaloupe in chili-spiced tomato sauce*

Cut melons *in half; carve flesh out in cubes. For serving, slice bottoms so melon halves rest flat*



DARROW M.

Shrimp and fish in a cantaloupe boat

The nut-like sweetness of fresh cantaloupe makes an unusual complement to the warm and spicy tomato sauce in this handsome seafood entrée. It's a fine choice for a special-occasion summer luncheon or supper.

Serve the stew in a tureen and spoon it into soup bowls, or pile individual servings of the fish and melon stew into hollowed melon shells as we did here.

Depending on what's fresh and economical at the market, choose whatever firm white fish (or combination of fish with shrimp or scallops) you like. A pair of shrimp for each serving makes an elegant yet affordable garnish. For varying tastes, you can change the heat level by adjusting the amount of chilies and hot pepper seasoning.

When shopping for cantaloupes, choose medium-size melons with dry gray nettings that protrude over green-gray rinds, smooth stem ends, and distinctive cantaloupe fragrance.

Spicy Seafood Melon Boats

- 2 tablespoons salad oil
- 1 medium-size onion, chopped
- 2 carrots, sliced
- 2 large cloves garlic, minced or pressed
- ½ to 1 can (4-oz. size) diced green chilies
- 1 can (8 oz.) tomato sauce
- ½ teaspoon *each* sugar and salt
- ⅛ teaspoon ground cinnamon
- ⅛ to ¼ teaspoon liquid hot pepper seasoning
- 1¼ pounds firm white fish fillets (such as rock cod, red snapper, perch), or a combination of fish with shrimp or scallops
- 2 medium-size cantaloupes
- 8 medium-size shrimp for garnish

In a 5- to 6-quart pan, set oil over medium heat. Add onion and carrots and cook, stirring, for about 5 minutes or until carrots are tender.

Stir in garlic, chilies, tomato sauce, sugar, salt, cinnamon, and hot pepper seasoning. Cover and simmer over low heat for 20 minutes.

Meanwhile, remove and discard bones from the fillets and cut into 2 3-inch chunks. If using shrimp, shell devein; if using scallops, cut large in half. With shrimp for garnish, rem all shells except tails, then devein.

To prepare the cantaloupes, cut in and scoop out seeds. With a small kn cut meat out in 1-inch cubes, leav shell about ½ inch thick. Slice off tom of each shell so it will sit level.

Add fish and melon cubes to sauce stir gently to mix. Set garnishing shri on top. Cover and simmer for 7 t minutes, or until fish flakes easily shrimp are pink throughout. Lift out 8 shrimp and set aside.

With a slotted spoon, lift out fish melon and set in a tureen or the me shells; boil sauce over high heat, stirri for 2 to 3 minutes to thicken; then spo evenly over fish. Garnish with shrimp. Serves 4.

ive him three new "old secrets" o barbecue. All quick and easy from Foster Farms.

ter Farms wants to let you in on some tempting astes. They're made with ingredients you around the house. Simple and quick. And the cuing man in your life can be certain of success because he's using California's freshest chicken—Foster Farms, always plump, tender and juicy. That's a "secret" we've never been able to keep to ourselves.

Talk of the Town
Baste chicken parts with melted orange marmalade, a touch of prepared horseradish and Worcestershire sauce.

Pantry Relish
Brush chicken parts with equal amounts ketchup, mustard and pickle relish.

Chili Bird
Sprinkle whole legs with chili powder; brush on equal parts thawed frozen orange juice concentrate and vegetable oil.

FOSTER FARMS

Where Fresh Food Ideas Grow.

What happier pairing of food could summer bring than plump, juicy berries nestled in tender, flaky pastry? As filling for our two desserts, you can choose from the West's five great cane berries, described on pages 96 and 97.

The rich, sweet-tart flavor of the pie comes from any of the berries or a combination of them. Try pairing the tart Logan and sweet Olallie, or the sweet-tart, assertive Boysenberry with the milder blackberry. Or you can combine any of the berries with more economical peaches—the taste is surprisingly similar to an all-berry pie.

Our individual tarts feature glazed berries atop a thin layer of cream cheese filling. The smaller varieties—raspberry, blackberry, or Boysenberry—make particularly stunning toppings.

Fresh Berry Pie

- 1 cup sugar
- 4 tablespoons cornstarch
- ½ teaspoon ground cinnamon
- Pastry for a double-crust 9-inch pie
- 5 cups (about 2 baskets) blackberries, Olallieberries, Loganberries, Boysenberries, raspberries, or a combination of berries (or replace up to 2½ cups with peeled, sliced peaches)
- 1 to 2 tablespoons lemon juice, depending on tartness of berries
- 2 tablespoons butter or margarine

Mix together the sugar, cornstarch, and cinnamon; set aside. Using your favorite recipe or a mix, make pastry for a double-crust 9-inch pie. Roll out half the pastry on a floured board and fit into a 9-inch pie pan. Gently spoon in berries (or peaches and berries); sprinkle cornstarch mixture and lemon juice evenly over fruit; dot with butter.

Roll out remaining pastry to about ⅛ inch thick (cut into ½-inch-wide strips for a lattice top, if desired). Place pastry top over filling and slash the top crust (or weave the lattice strips over top). Seal and flute edge. Place on a baking sheet and bake in a 400° oven for 40 to 50 minutes or until juices bubble in the center and crust is golden. Makes 8 to 10 servings.

GLENN CHRIS

One rich bite *of this berry-crowned cream cheese tart goes a long way. Bake and fill the tarts ahead for a festive dessert*

The glories of June . . . fresh berries in a tart or pie

Fresh peaches *will extend berry flavor, take on rich color in this easy pie*

Glazed Berry Tarts

- 1 cup all-purpose flour
- 2 tablespoons sugar
- 6 tablespoons firm butter or margarine
- 1 egg yolk
- 2 packages (3 oz. *each*) cream cheese
- 2 tablespoons powdered sugar
- ½ teaspoon grated lemon peel
- 1 tablespoon cherry-flavored liqueur or lemon juice
- 2½ cups (about 1 basket) blackberries, Boysenberries, or raspberries
- ½ cup currant jelly

Stir together the flour and sugar; with a pastry blender, cut in butter until mixture resembles coarse meal. With a fork, stir in egg yolk until well blended. Work dough with your hands until it for smooth, noncrumbly ball.

For each tart, put a rounded tables of the dough into a medium-size n cup (about 2 inches in diameter) o pan (about 2½ inches in diameter); to form an even layer across botton sides. Bake in a 300° oven until go about 20 minutes. Let cool in pan vert, and tap lightly to free, then right side up.

In a small bowl, beat cream cheese powdered sugar until creamy. Be lemon peel and liqueur. Spread abo tablespoon of the mixture in the bo of each cooled shell. Top with be dividing fruit evenly between the sh

In a small pan over low heat, warm until melted. Brush over each tart, co ing berries generously. Refrigerate lightly covered, up to 24 hours. M 12 tarts.

From the Marimekko Collection of bedroom fashions. "Evening," "Meadow" and "Comb Stripe" coordinating sheets and pillowcases in **Fortrel**® polyester/cotton no-iron percale. Comforters, comforter covers, pillows and shams in matching patterns. At Sujo's, Seattle; Emporium-Capwell, S.F.; The Denver, Denver. © 1981 Dan River Home Furnishing Products Division, N.Y. 10018

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Two 10-inch pizzas come out of the hot camp pan

Campers can appreciate a pizza like this one. It cooks over a barbecue grill or camp stove in a cast-iron or heavy aluminum frying pan.

This recipe makes two 10-inch pizzas. After you make the first one, let the pan cool briefly before starting the second. It should be done by the time you're ready for more helpings.

Camper's Pizza-in-a-Pan

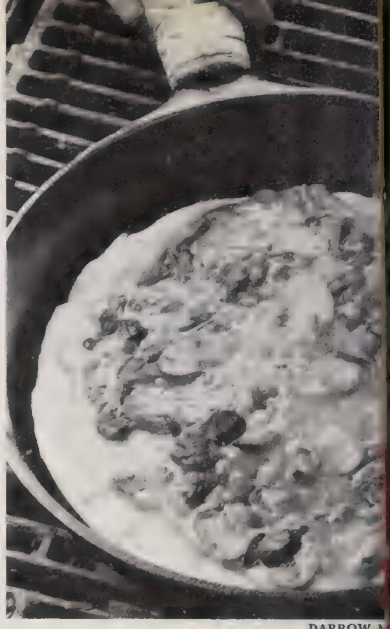
- ¾ cup warm water (about 110°)
- 1 package active dry yeast
- 2½ cups baking mix (biscuit mix)
- 1 can (7¾ oz.) marinara sauce
- 1 package (3 oz.) sliced salami or pepperoni, coarsely chopped
- 1 can (4 oz.) sliced mushrooms, drained
- 1 can (2¼ oz.) sliced ripe olives, drained
- 2 cups shredded Cheddar cheese

If making the pizza on a barbecue, light about 30 long-burning charcoal briquets; wait until glowing coals form, about 25 to 30 minutes.

In a bowl, combine the water and yeast; let stand 5 minutes. Add the baking mix and beat well. Turn dough out onto a floured board and knead until smooth, about 5 minutes. Divide dough evenly in half; cover one portion and set aside. Pat the other portion of dough into a well-greased 10-inch cast-iron or aluminum frying pan, pulling up a ¼-inch rim of dough. Cover pan with heavy foil; pinch around the edges to seal. Cut 6 to 8 1-inch slashes in the foil for vents.

When coals are glowing, spread them in a 12- to 14-inch-diameter circle. Place pan on the grill about 6 inches above the coals. Or if using a camp stove, place pan over burner on a medium-low flame. Cook pizza crust 10 to 15 minutes or until set but not brown on the bottom.

Meanwhile, mix together in a bowl the marinara sauce, salami, mushrooms, and olives. Uncover pizza and sprinkle with ½ cup of the cheese. Spoon half of the sauce mixture on top, then sprinkle with another ½ cup of the cheese.



DARROW M

Thick-crust pizza *cooks at the campsi in a heavy frying pan over glowing co*

Re-cover pan and cook for 15 to 20 utes or until the crust is browned o tom—check by lifting one edge spatula (top crust will be set but Remove pan from heat; serve.

Add about 6 briquets to the coals. pan is cool, shape and cook the ond pizza. Each pizza serves 4.

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DARROW

At this large-scale *salad bar, guests create their own whole-meal salads of crisp greens, meats, cheeses, vegetables, and creamy dr*

JUNE MENUS

Salad buffet for a crowd, barbecue for Father's Day, quick fish dinner

This is a month for special occasions. For a shower, reception, or graduation party, our first menu presents an easy-to-assemble salad buffet: guests build their own whole-meal salad from a hearty array of makings.

To help Dad celebrate his own special day this month, our second menu features a tasty barbecue sauce for chicken and ribs.

For busy days, our last menu suggests the time-saving technique of steaming to produce a sole and spinach entrée that is ready to serve in minutes.

Salad buffet for a crowd

Virtually all the work for this informal salad bar can be done days ahead. Designed for 20 to 25 guests, the amounts can be easily multiplied for larger groups.

Chilled Champagne, Wine, or Punch
Special-occasion Salad Buffet
Buttered Soft Rolls **Deviled Eggs**
Tiered Mocha-Nut Cake
Coffee **Tea**

A day or two ahead, prepare the meats, cheeses, vegetables, and greens. The dressing keeps about 4 days.

Offer small soft dinner rolls and
with the salad. You'll need about 4
rolls and ¾ to 1 pound butter or m
rine. Also prepare your favorite
for deviled eggs, allowing 1 egg per
The Tiered Mocha-Nut Cake is ea
do; directions are on page 175.

Special-occasion Salad Buffet

- 2 broiler-fryer chickens (about 3½ lbs. *each*)
- 3-pound canned ham
- 1 to 1½ pounds *each* Swiss and sharp Cheddar cheese
- 1 large (1½ to 2 lbs.) cauliflower
- 2 large red onions, thinly sliced
- 1 pound carrots, thinly sliced
- 3 or 4 large zucchini, thinly sliced
- 4 cucumbers, peeled and sliced
- 1½ pounds mushrooms, quartered
- 2 baskets cherry tomatoes
- 1 or 2 baskets alfalfa sprouts
- 2 large heads *each* iceberg, romain and red leaf lettuce
- 1 small head red cabbage, shredde
- Creamy tarragon dressing (recipe follows)

Rinse chickens and pat dry (save gi
for other uses). Place chickens and

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th new Maxwell House® Master Blend® ffee you enjoy delicious ground coffee. And u can save money, too.

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Use the same number of scoops. That's how Master Blend can save you money.

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n…smell that rich aroma! t's 100% ground coffee.

the same number of scoops use with ordinary coffee.

The flavor is always Good to the Last Drop.®"

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GF GENERAL FOODS

on a rack in a large roasting pan. Bake in a 350° oven for about 1½ hours or until thigh meat of chicken is no longer pink when slashed next to the bone. Let cool.

Discard chicken skin and bones; tear meat into thin strips. Also cut ham and cheeses into thin strips. Package separately; refrigerate.

Cut the cauliflower flowerets into ¼-inch-thick slices. Prepare other vegetables, packaging each separately; chill.

Wash salad greens, drain on paper towels, and tear into bite-size pieces. Package with shredded cabbage; chill.

Before serving, arrange the meat, cheeses, and vegetables in separate mounds on large boards or trays. Pour dressing into 1 or 2 containers and place the mixed greens in a big basket or bowl. Makes about 25 servings.

Creamy tarragon dressing. In a food processor or blender container, combine ¾ cup white wine vinegar; 4 egg yolks; 2 tablespoons dry tarragon leaves; 4 to 6 cloves garlic, minced or pressed; 2 teaspoons salt; and ½ teaspoon pepper. Whirl to blend. With motor running, slowly pour in 3 cups salad oil in a thin stream until all oil is added and dressing is thick. Cover and chill up to 4 days. Makes 1 quart.

Father's Day barbecue

This sweet-spiced barbecue sauce is equally delicious on chicken and spareribs and acts as a marinade and baste.

Grilled Chicken and Ribs
Hot Garlic Bread
Garden Vegetable Salad
Berry Shortcakes

Up to a day ahead, you can precook the ribs and chicken and start marinating them. While the ribs and chick cooking, heat the garlic bread in th or wrap it in foil and heat on grill

For dessert, top homemade but biscuits or purchased shortcake w cream and sliced strawberries or summer berries of your choice.

Grilled Chicken and Ribs

- 4 pounds lean pork spareribs, cu serving-size pieces
- 1 broiler-fryer chicken (about 3½ cut up
- 1 can (8 oz.) tomato sauce
- 1 can (6 oz.) tomato paste
- ⅓ cup dry sherry
- ¼ cup *each* packed brown sugar and honey
- 1 tablespoon dry mustard
- 2 tablespoons Worcestershire
- ½ teaspoon pepper
- 2 tablespoons instant minced onic
- 2 cloves garlic, minced or pressed
- 1 teaspoon ground ginger
- 1½ cups orange juice

Arrange spareribs and chicken in pan(s) and place in a 375° oven. chicken breast pieces 20 minutes, chicken pieces 40 minutes, and the ribs for 1 hour. Drain off fat.

For sauce, combine the tomato and paste, sherry, sugar, honey, mu Worcestershire, pepper, onion, g ginger, and orange juice.

Place ribs in double plastic bag pour in 2½ cups of the marinade. rately enclose the chicken in d plastic bags and pour in remaining inade. Twist-tie bags closed and let 3 hours at room temperature or ref ate overnight.

Lift ribs and chicken from mari drain briefly, reserving marinade range ribs and chicken 6 inches a a single layer of low-glowing c Cook, turning frequently and ba with marinade, for 15 minutes or both ribs and chicken pieces are browned. Serves 6 to 8.—*A. R., Altos, Calif.*

Garden Vegetable Salad

You'll need 2 to 3 quarts torn s greens (use a mixture of iceberg, maine, and red leaf lettuce). In a salad bowl, combine greens with 1 t sliced zucchini; ½ cup *each* sliced g onions, radishes, and shredded carr jar (6 oz.) marinated artichoke h (drained); ¼ cup sliced ripe olives; 1 can (8 oz.) kidney beans or garba (drained). Cover and chill as long hours. Before serving, drizzle with favorite oil and vinegar dressing and to coat well. Garnish with tor wedges. Serves 6 to 8.

Busy-day fish dinner

You can steam this quick and utt simple sole and spinach dish on a

Cure|81 Golden Praline Ham

Golden Praline Ham
1 10-oz. jar apricot-pineapple preserves
½ cup brown sugar
Pecan halves and maraschino

Combine apricot-pineapple preserves with brown sugar and heat in saucepan, stirring well. Spread mixture over Cure/81 Ham for last half hour of baking. When

alternating diagonal rows of pecan halves and cherry halves.

Cure 81® Ham. Dependability worth paying for.

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These are just two examples of Sunset's 24 quality cook books, written for every gourmet taste. Color photos and triple-tested recipes assure perfect results every time. You'll serve to rave reviews when you cook with Sunset Books. Ask for them at your favorite book retailer. **$3.95 to $4.95**

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Sunset Books

MENLO PARK, CALIFORNIA 94025

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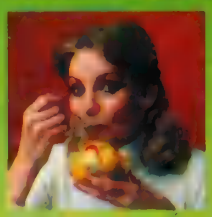
Libby's Libby's Libby's
LITE
FRUITS
IN REAL FRUIT JUICES
NO SUGAR ADDED

Gives Libby's LITE Fruits a fresher fruit taste!

What a fresh idea! There's not a speck of sugar added to Libby's Lite Peaches, Pears, Fruit Cocktail and Chunky* Mixed Fruits. So there's no heavy, sugary syrup to cover up the fresher fruit taste. Instead, Libby's Lite fruits are packed in a luscious splash of real, naturally sweet fruit juices. Mmmm....that's delicious! That's Libby's Lite!



Libby's Libby's Libby's

set inside a wok or large frying pan
a domed lid.

Steamed Sole Fillets with Spinach
Tomato and Cucumber Salad
Tiny New Potatoes
Sherbet and Cookies

While you're assembling the fish
steam the potatoes; keep them
while the fish is cooking. Season
tomatoes and cucumbers with dry
and oil and vinegar dressing.

Steamed Sole Fillets with Spinach

- 1 bunch (about ¾ lb.) spinach
- 1¼ pounds sole fillets, ¼ to ½ inch
- ¼ cup *each* dry white wine and whipping cream
- 1 tablespoon lemon juice
- 2 tablespoons firm butter or margar cut into 2 pieces
- 1 teaspoon Dijon mustard
- Salt and pepper

Discard spinach stems; rinse leaves
and pat dry. Rinse sole fillets and
dry. Arrange half the spinach leave
a 10- to 12-inch heatproof plate.
sole fillets side by side on top and
with remaining spinach leaves.

Pour 1 inch of water into a wok, stea
or frying pan with a domed lid. Pla
metal rack directly over but not touc
water. Bring water to a full boil,
plate on rack, cover with waxed pa
cover steamer and cook 8 to 10 min
or until fish flakes.

Meanwhile, in a small pan, combine
wine, cream, and lemon juice. Boil
idly until reduced to ¼ cup. Rem
from heat; with a wire whip or woo
spoon, beat in the butter until s
thickens slightly and is creamy. Add
mustard and salt and pepper to t
Keep warm; do not reheat.

Lift plate from steamer, drain of
liquid, drizzle with sauce. Serves 4.

DARROW M.

Arrange sole fillets *between layers of fresh spinach, then steam briefly to serve*

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cker's has over 30 red, and blueberry flavors for choice. No wonder we're rica's natural choice for kfast, lunch and snacks.

merica's favorite awberry
n you use America's fine berries—but never, never preservatives, artificial ing or flavoring—you're to please mallows.

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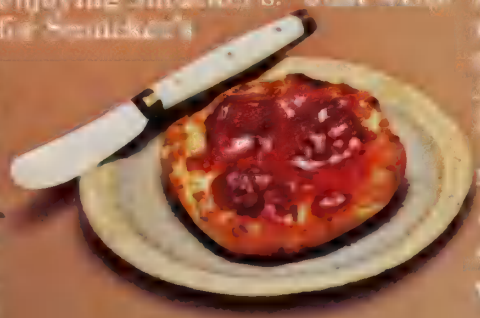


Name _____
Address _____
City _____ State _____ Zip _____

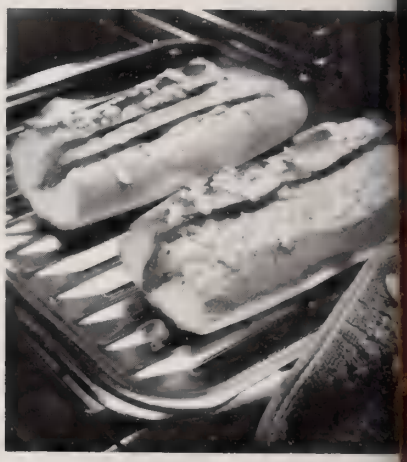
With a name like Smucker's, it has to be good.

Hollowed out *and spread with mustard and catsup, French baguettes make crusty holders for plump franks*

GLENN CHRIST

Served open-face, *baguette holds sausage topped with slow-cooked, herb-seasoned onions*

The French stuff frankfurters into long crusty baguettes



You briefly heat *these baguette-and-franks to melt the herbed cheese*

The French aren't above enjoying a frankfurter once in a while—usually tucked inside a piece of crusty baguette. These long slender loaves are just the right size, and their chewy texture complements a plump, juicy sausage.

The most straightforward presentation we met on a recent trip to France was a hollowed-out length of baguette, spread with mustard and catsup, then stuffed with a fat frankfurter (see top left). But when a slightly more substantial snack is wanted, the French split the baguette, stuff or top them with franks, then add herbed cheese or mellow sautéed onions. Baguettes are increasingly available in Western markets. But if you have trouble finding them, simply use regular long loaves of French bread; just cut them into pieces about an inch shorter than the sausages.

The franks can be heated in water, in a microwave, or grilled.

Creamy Onion-Frankfurter Sandwiches

To stuff one baguette, you'll need 3 plump frankfurters (each about 7 inches long) or 6 smaller ones. Cut baguette into 3 equal pieces (or cut regular French loaves into pieces just slightly shorter than each frank). Slice each piece in half lengthwise and toast lightly.

Meanwhile, melt ¼ cup butter or margarine in a frying pan over low heat. Add 2 onions, thinly sliced; 2 cloves garlic, minced or pressed; and ⅛ teaspoon *each* dry basil and thyme, rosemary, and tarragon leaves. Cover and steam, stirring often, for 15 minutes. Uncover and cook, stirring occasionally, until onions are limp and golden, about 15 minutes longer. Blend in ¼ cup sour cream and stir until heated through.

Heat frankfurters and cut each lengthwise almost in half; lay 1 large frank (or 2 smaller ones) flat on each bottom section of baguette. Spoon a portion of the onion mixture on top, then place top baguette sections over or alongside. Serves 3.

Cheesy Herbed Frankfurters

To stuff one baguette, you'll need 3 plump frankfurters (each about 7 inches long) or 6 smaller ones. Also mix gether 2 cups shredded jack or S cheese and 1½ teaspoons fines he (or ¼ teaspoon *each* dry basil and s rosemary, thyme, oregano, and marjo leaves).

Heat frankfurters and cut each len wise almost in half. Cut baguette in equal pieces (or cut regular loaves French bread into pieces just slig shorter than each frank). From the slice each piece of bread diagonally most to the bottom crust. Cover cut faces with some of the cheese mixt then fit in 1 large frank (or 2 sma ones), opening them out flat. Stuff e with some of the remaining cheese.

Place sandwiches on a baking shee broiler pan and heat, uncovered, i 375° oven until cheese melts, about minutes. Serves 3.

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STORE COUPON

Nestlé

Individual *asparagus timbales complement barbecued chicken and asparagus spears*

Timbales with asparagus, corn, or broccoli... none will fall

DARROW M. WATT

Platter-size *broccoli and Cheddar timbale, with hot cooked broccoli spears, rolls, and sausages, serves four to six for brunch*

Filled with vegetables and enriched with cheese, a steam-baked, custard-based timbale makes an elegant entrée or side dish. Unlike its touchy cousin, the soufflé, a timbale won't fall. Once it's baked and unmolded, it can be served hot or held to serve at room temperature.

Bits of meat or poultry are frequently added to timbales, but in our meatless version laden with bits of asparagus, broccoli, or corn, the eggs and cheese provide plenty of protein. Bake timbales in one large mold or several individual molds or custard cups. If desired, serve them with hot cooked vegetables.

Fresh Asparagus Timbale

About 1 pound asparagus, tough ends removed
Water
½ cup finely chopped onion
2 tablespoons *each* butter or margarine and all-purpose flour
2 chicken bouillon cubes dissolved in ¾ cup hot water
¾ cup whipping cream or half-and-half (light cream)
4 eggs, beaten
¼ teaspoon *each* ground nutmeg and white pepper
1 cup (4 oz.) shredded Swiss cheese
Additional hot cooked asparagus (optional)

Cook the 1 pound asparagus in a frying pan in 1 inch of boiling water for 10 minutes or until very tender. Drain and coarsely chop enough to make 1½ cups (reserve any extra for garnish). Place chopped asparagus on several layers of paper towels to drain thoroughly.

In a frying pan set over medium heat, sauté the onion in the butter until limp. Stir in the flour until well blended, then gradually stir in the bouillon mixture and cream; stir until smooth. Cook, stirring constantly, until mixture boils and thickens. Remove from heat.

Slowly stir about half the sauce into the eggs, then turn all this mixture back into sauce in pan. Stir in the nutmeg, pepper, cheese, and asparagus.

Grease a 9-inch round cake pan or 6 to 8 individual molds or custard cups (½ to ¾ cup capacity). Line bottom of the pan with waxed paper, then butter the paper. Pour timbale mixture into prepared pan or individual containers, cover with foil, and set in a large roasting pan.

Into the roasting pan, pour about 1 inch of hot water (or up to the level of the timbale mixture in small containers). Bake in a 375° oven for 40 minutes or until a knife inserted near center c out clean.

Lift from hot water; cool 10 minut a rack. Run a knife around edg loosen; unmold on a serving dish. S hot, or cool to room temperature. M 4 entrée or 8 side-dish servings.

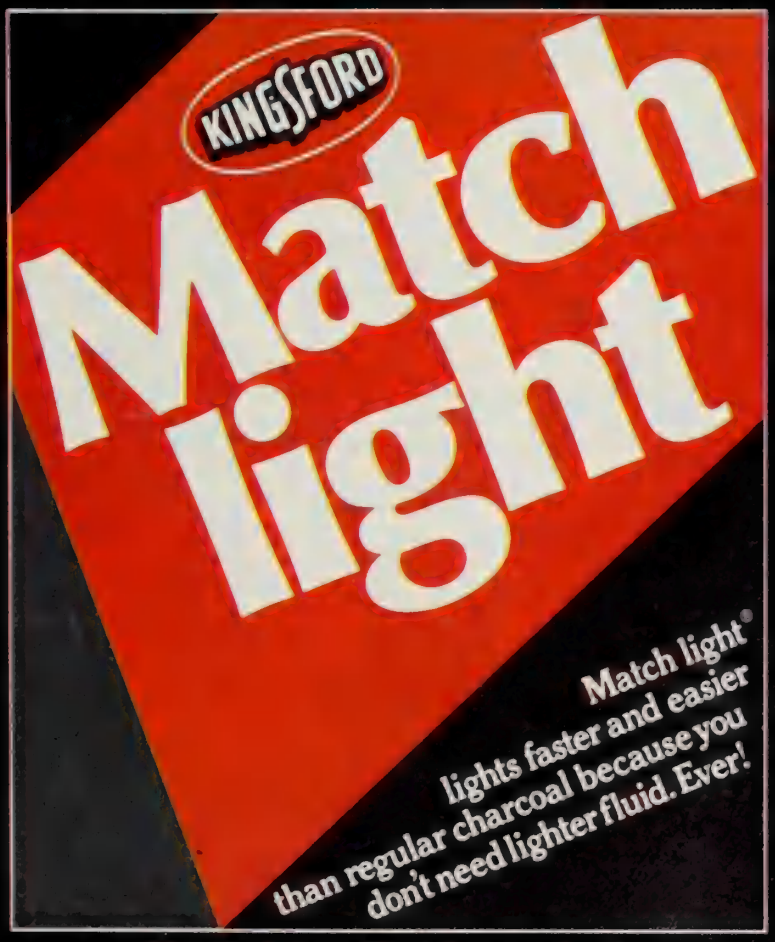
Broccoli Timbale

Prepare as directed for asparagus bale but omit asparagus and use pound broccoli, peeled and cooked small amount of water for 12 minut until tender, then chopped to make cups. Also omit the nutmeg and white pepper and substitute ⅛ teasp cayenne, and ¾ teaspoon *each* mustard and Worcestershire; subst Cheddar cheese for the Swiss.

Corn Timbale

Prepare as directed for asparagus bale but omit asparagus and use 1 (12 oz.) whole kernel corn with s peppers, well drained. Also omit nut and white pepper and use 1 can (4 diced green chilies, drained; subst jack cheese for the Swiss.

The pour... and light charcoal.



No lighter fluid needed.

E IN YOUR GARDEN:

It's a second-best planting time, but you can still plant successfully. Then it's hammock time

chance to plant before the long, of summer: that's June. Before o hot to do any planting, put in ls, summer annuals, and vege- Then string up the hammock. want to do nothing in the garden , didn't you?

n fall and spring are best plant- s, you can finish now whatever n't complete earlier. And you'll have watering, fertilizing, and to do.

ous begonia mer climates

e wanted to grow tuberous be- but couldn't because your sum- e too warm, there's good news: a ain of tuberous begonia called p' is reputed to survive well in o warm for any other kinds.

p', a shrub-shaped multiflora be- as numerous flowers in shades of pink, red, and peach. You can nts at some general nurseries and begonia specialty nurseries, and re available from several mail- ouses.

ils: they kill insects n't toxic to your

rs, gardeners have used spray oils dormant sprays and growing-sea- ecticides. These sprays are non- humans and most beneficial in- yet they kill scale, mites, mealy- ome aphids, and whitefly larvae.

he University of California's Co- ive Extension Service endorses oils as an alternative to poison if you are concerned about over- use of toxic chemicals. "Used properly," the extension service reports, "oils are safe to both the person spraying and the plant being sprayed." This means only "supreme" or "superior" oils and does not include oil sprays containing anything else, such as copper or sulfur.

The oil smothers the insect on contact. It has no residual effect, so will not kill insect pests that land after spraying; likewise, the only beneficial insects it kills are those that happen to be on the plant at the time of application. What's more, lacewings, predator mites, ladybird beetles, and some other beneficials usually survive oil sprays.

Don't use spray oils on trees or plants not listed on the label. Don't spray at all if the temperature is higher than 90°, when relative humidity in air is less than 20 percent, or if the plant is stressed from being underwatered. In such circumstances, plant damage might result.

A summer shower is good for your indoor plants

House plants don't have to be housebound all year. You can do them a world of good by taking them outdoors and giving them a good shower using a misting nozzle on the hose. (Do this in the morning so they will drip dry before you return them indoors.) Keep plants out of the sun.

Rinse the leaves well, even on their undersides, to remove the dust that has collected. This is a good opportunity to prune and groom and to repot plants that have outgrown their containers.

Think about leaving the plants outdoors, on a patio or deck protected from direct hot sun, for a few weeks or months. This change of scene often will revitalize them so they look healthier when you return them to the house. (Before you put them back, check for insects, slugs, and snails.)

Proud of your garden achievements?

Sunset's Garden Contest offers you a chance to share your accomplishments with other *Sunset* readers.

Each year dozens of the contest's best-looking and most innovative entries are published in the magazine. The top 12 entries also receive modest cash prizes,

Sunset's GARDEN GUIDE

Special information for high elevations, page 234

NORMAN A. PLATE

Misting nozzle *provides shower for indoor dracaena, schefflera, and kentia palm in preparation for summer on the patio*

sa daisy, four variations . . . can you spot each?

the cheerful colors of gloriosa daisies in nurseries this month. You can economically in flats or sixpacks; or choose flower shades and you like best from blooming plants in gallon cans or 4-inch pots. Our ph shows only four of many available sizes and colors—single or double large or small bicolors.

lants along the back of an annual or perennial border, or mass them alone hy display. These rugged plants thrive in heat, withstand more dryness than wers, and tolerate almost any soil. From the coast to the mountains or alleys, they'll perform from summer into fall, returning year after year. xposed ground is undisturbed, volunteer seedlings often naturalize a over a larger area each year.

Sunset's GARDEN GUIDE

and every contestant receives a certificate of participation in the contest and a *Sunset* book.

To enter, send five to eight different snapshots of your garden and a brief description of it to Garden Contest, *Sunset Magazine*, Menlo Park, Calif. 94025. Include your name (as you would like it to appear on your certificate), address, and daytime telephone number. We will send you further details about the contest. We arrange to visit as many entries as possible.

New melon: not too sweet or musky

A promising new melon that combines the best qualities of honeydew and cantaloupe (muskmelon) is available for the first time this season. Named 'Honeyloupe', it features salmon-orange flesh inside ivory skin that turns to a creamy white tinged with pale salmon when the fruit ripens. The slightly elongated melons grow to 5 to 6½ inches in diameter and weigh 3 to 5 pounds when mature. The thick, firm flesh has a delicate flavor —a bit less sweet than a honeydew and not as musky as a cantaloupe.

Plants spread vigorously to about 8 feet in diameter. Their large leaves shade the developing fruit (expect up to five per plant) until they mature—about 88 days from planting. As the melons ripen, the stem begins to part from the frui tale sign that the melon is almo Pick 'Honeyloupe' (and other m ons) when the rind begins to turn color and the stem can be detac the fruit with a slight tug.

Order seeds from Gurney's Seed ery Co., Yankton, S. Dak. 5 packet of seed (to plant up to costs 75 cents; add 80 cents for n

Sow as soon as you receive se earlier in June, the better. Plan sun on mounds formed from riched with compost or other matter. Water when soil surface

Navel oranges can split— but you can minimize this

Gardeners with orange trees m that some fruits split in fall, dry the pulp. This problem, a long-s one with navel oranges and an occ one with Valencia oranges, can imized by careful attention in su

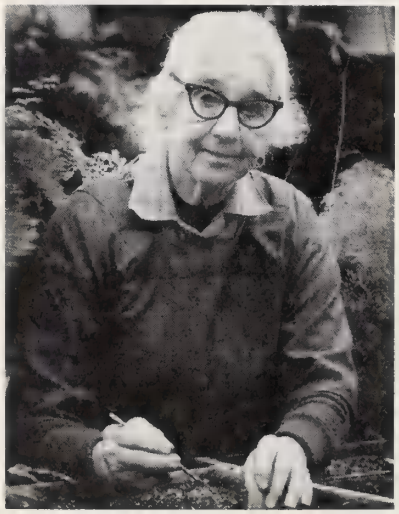
Experts recommend avoiding e in soil moisture or fertilization overwater, underwater, or overf This won't eliminate fruit split, b ally reduces it.

A $1 gasket could put your $25 sprayer back into operation

It's inevitable—your pump-up s eventually will clog or just seem some of its force. When this ha many gardeners replace the spray as much as $25 to $35. Often, ho an outlay of only a few dollars— couple of gaskets, washers, or nozzle—will restore the sprayer to condition.

The instructions that came with sprayer will tell how to disassem usually, the only required tools

CAROLYN CADDES



Gerda Isenberg *has spent 25 years creating and operating one of the leading California native plant nurseries in northern California, and Sunset salutes her as she celebrates her 80th birthday on June 8. Mrs. Isenberg still works full time at her Yerba Buena Nursery, propagating, growing, and selling natives and her favorite native and exotic ferns. (In the photograph she's transplanting ferns grown from spores.) She was singing the praises of native plants long before most gardeners were aware of them, and has given countless young landscape professionals a chance to get practical experience by working at her nursery. Open 9 to 5 daily, it's at 19500 Skyline Boulevard, Woodside (down a gravel road 4½ miles south of La Honda Road—follow the signs)*

JUNE CHECK LIST: *Here are the imp*

☐ **Fertilize.** Feed summer flowers and vegetables frequently with diluted doses of fertilizer. You can feed many plants with every watering. A single feeding of full-strength food this month will help roses and warm-season grasses such as hybrid Bermuda.

☐ **Fight powdery mildew.** Look for this fungus disease as fuzzy white spots on leaves of susceptible plants such as begonias, crape myrtle, dahlias, roses, and zinnias. Good air circulation and dry leaves will minimize mildew; to treat an infestation, use benomyl, karathane, or triforine. Follow label directions exactly.

☐ **Plant herbs.** A wide variety of small plants can be found in most nurseries. Set them out from pots or sow seed now.

☐ **Plant perennials.** Plants are blooming in nurseries, so many dealers offer the best selection now. If you have been looking for hard-to-find varieties, shop this month (although fall and early spring are better planting times for most perennials).

☐ **Plant summer annuals.** Many bedding plants are available this month; they will last through summer if planted now. These include ageratum, semperflorens begonias, celosia, coleus, dahlias, dianthus, impatiens, lobelia, golds, petunias, portulaca, s sweet alyssum, and zinnia.

☐ **Plant vegetables.** Hurry hot-weather plants int ground: corn, cucumbers, eggp melons, peppers, pumpkin, sq and tomatoes. You can also beans, beets, carrots, and chard less you live in a cool fog belt, try cole crops such as bro Brussels sprouts, or cabbage.

☐ **Plant warm-season la** This is the time to plan chondra or hybrid Bermuda la or replace worn patches. Mo lawns often now and, as alw watch for and remove lawn wee

MICHAEL THOMPSON

Nurseryman *helps gardener figure out to fix tank sprayer by taking it apart, then replacing worn parts*

wrench, pliers, and perhaps a screwdriver. Parts sometimes can be saved by a thorough cleaning with hot soapy water.

Replacement parts can be purchased at nurseries and hardware stores that repair sprayers. At these establishments, a knowledgeable employee may be available to advise you on disassembly and which parts need replacement.

You can help pick the best fuchsias

Fuchsia hobbyists' organizations are looking for fuchsia lovers to participate in a new project. If you like to grow fuchsias—even if you don't belong to a fuchsia society—you can test-grow and compare various fuchsias.

The Fuchsia Test Gardens project is being organized by the American Fuchsia Society, headquartered in San Francisco, in cooperation with the National Fuchsia Society, based in Southern California. Robert Herberger, project chairman, plans to include new varieties as well as old favorites and wants to collect information on how they grow in all Western climates.

To become a tester, write to Mr. Herberger at 2805 Chemawa Rd. N.E., Salem, Ore. 97303.

How are your miniature roses?

If you have discovered miniature roses and have succeeded in growing them—or have tried and had problems—we would like to hear about it.

Please send a letter to Miniature Rose Editor, *Sunset Magazine*, Menlo Park, Calif. 94025, telling us about your miniature roses, when you bought them, how you grew them, and how the roses responded.

We'd also like to know whether you found that miniatures require different care from full-size roses. Please let us know your successes or failures with large roses as well.

Your information will be assembled into an article on miniature rose growing in a future *Sunset*.

A new ceanothus that makes a hedge

Of the many varieties of *Ceanothus* (you may know them as "mountain lilacs" or "wild lilacs"), a new one that grows into a trim hedge shrub is becoming widely available in nurseries.

It's *C.* 'Blue Jeans'. Like many ceanothus, it is both drought and heat tolerant. It matures into a dense 5-foot-tall plant, useful where you might otherwise choose a thirsty plant. To form a hedge or informal screen, you won't need many plants, because this one eventually spreads to 8 feet.

As the photograph below shows, 'Blue Jeans' has minute leaves packed on wiry stems that branch freely. The lavender flowers come in small clusters in March, but the clusters are many.

(Some nurseries may sell the variety as "C. porrectus hybrid.") □

Ceanothus *'Blue Jeans', a new variety, sports closely packed leaves on dense shrub that makes a good hedge*

Planting, feeding, propagating, training

Propagate. Start biennials and perennials from seed for fall planting. Take tip cuttings of plants such as chrysanthemums, fuchsias, hydrangeas, and geraniums.

Prune, pinch, stake. Pinch growing tips on chrysanthemums and newly planted geraniums and marguerites to force side growth for best flowering. Fuchsias may need some pinching, too.

Continue pruning now as you cut roses to help the plants become full and flowering.

Train runners of vines to supports. Stake dahlias, delphiniums, gladioli, and tomatoes. Cut faded iris flowers and stalks. Shear spent annuals such as lobelia and sweet alyssum to stimulate new bloom.

☐ **Revitalize house plants.** Take them outside, wash, groom, repot if necessary. (See details on page 215.) If they summer outdoors, put them on protected patio.

☐ **Shop for ideas.** This is the perfect month to take a family outing that includes a visit to an arboretum or botanic garden. Don't forget a notebook and pencil—and your *Sunset Western Garden Book*—to double-check whether plants that interest you will grow in your home climate and are otherwise suited to your garden.

☐ **Water and weed.** You are unlikely to see any rain until October, so be vigilant to keep plants in the ground and in containers from drying out. Save water by mulching, deep soaking, building watering basins, installing a drip irrigation system (see page 117 of the May *Sunset*).

Pulling by hand is the best way to get rid of big single weeds that appear in the wrong places. Mulching helps smother young weeds. For stubborn ones, use the least toxic, least persistent herbicide you can.

The crucial factor in minimizing future weed pulling is to kill annual weeds now, before they form flowers and seeds.

An easier way to propagate some shrubs and trees ... you just cut and callus

RICHARD AUDSLEY

1 . *Select vigorous, pencil-thick branches 12 to 16 inches long. Make a 3-inch cut through bark and into wood on both sides of branch (not top and bottom)*

4 . *Dip end in rooting hormone, then place in container (deep enough to cover callus) filled with sand or perlite. Water thoroughly*

2 . *Tie a colored ribbon or twine around the prepared branch to make it easy to find. He's working on a rhododendron*

5 . *Cover cutting with plastic bag to conserve moisture. (Wire loops hold up plastic.) Place cuttings in a lightly shaded location*

3 . *In three months, branch should be callused enough to be cut off. (Plants with flower buds may callus faster.) Snip it off just below the callus*

6 . *After about 8 to 10 months, you'll have sturdily rooted cuttings that are ready to transplant. Method is years quicker than older ways*

DAVID S

Year-old camellia cuttings *were identica when made. The plant in his right hand was rooted as shown here; in his left is a tip cutting rooted the usual way*

Twenty-two years ago, Jack Osegued Oakland, California, accidentally disc ered an easy way to propagate many ferent kinds of trees and shrubs with the hassle of air-layering or waiting ye for cuttings to reach transplantable siz

His discovery: after the bark of a pl has been removed and the cut begins heal, it forms a callus. Roots grow fr this callus very quickly and easily.

Through experimentation, Mr. Osegue perfected his procedure (shown in t photographs here) for propagating a leas, camellias, citrus, dogwoods, m nolias, and rhododendrons: you cou also try other plants. Summer is a go time. The only equipment you'll need a sharp knife, ribbon, gallon-size co tainers, and plastic bags. Grow the cu ings in sand or perlite.

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Net-covered *strawberry tent lets in sun, rain, bees, but keeps birds out*

Bird netting *is held at sides with 1 by 2's. Black plastic pipe plugs into 1-inch electrical conduit anchored in ground*

Eyebolt connects *ridgepole of PVC pip upright 1 by 4's drilled through to accept ¾-inch flexible plastic pipe*

Strawberry house... sun in, birds ou

The tent-like shape of this "strawberry house" is another example of form following function. Built by Bill and Virginia Woolf of Eatonville, Washington, it's designed to produce plenty of strawberries in a cool climate with minimal interference from birds.

The structure's ridgepole is a 20-foot section of PVC pipe mounted atop five 6-foot-high 1 by 4's. These uprights are fastened to a 4 by 4 that runs along the ground. The curved ribs are lengths of ¾-inch black plastic pipe that run through the 1 by 4's and are anchored at the ends in short sections of 1-inch electrical conduit.

Covering the framework are lengths of plastic bird netting laced together with twine. The nets are held to the ground on the sides by lengths of 1 by 2 closed at the ends by clothespins. arrangement keeps birds out most o time, though one occasionally find way in.

The plants inside are all June-bea 'Northwest' variety strawberries. The planted in tires to protect them f moles and to give them a little extra —two local needs in western Wash ton. To keep the tires stocked younger, more productive plants, on the four rows is replanted each year

So far, the system's only problem been with grass that grows up into bottom of the netting and tangles in To avoid that, you could treat the ca border with a mild herbicide twice e growing season.

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Fuchsia shopping as you travel up and down the coast. Here is a list for fuchsia searchers

Happily for the traveler, fuchsias time their bloom season to coincide with the peak vacation season. In June, flowering is far enough along to show plants' qualities, but their best months lie ahead of them—all the more reason for buying them now.

Fuchsia nurseries all along the coast (and in some of the valleys) beckon travelers to come in for a look and select a plant or two for their gardens. Here we list fuchsia specialty nurseries from north to south.

We recommend that you call ahead before making a long side trip to visit any of these places; hours and days for doing business may fluctuate, especially in the smaller "mom and pop" operations.

When you leave home, bring a cardboard box or two. Pack small fuchsias in the boxes for protection from hot sun or other damage. Use a box to steady a large hanging fuchsia by turning the box upside down, cutting a hole in it, and cradling the basket in the hole.

If you aren't already a member, consider joining the American Fuchsia Society. It publishes a monthly bulletin and performs other useful services. Dues are $8 per calendar year ($9 foreign); dues for July through December are $4 ($4.50 foreign). Send a check to the membership secretary, Norman J. Cantley, 59 Aura Vista St., Millbrae, Calif. 94030.

Southern Californians may want to join the more local National Fuchsia Society. It offers similar services including a monthly magazine, *The Fuchsia Fan*, and books, shows, and growing tips. S $9 check to N.F.S., 8137 Loyola Los Angeles 90045.

Washington: all but one near the I-5 corridor

Carlsen's Nursery, 31647 State Highw N.E., Poulsbo 98370; (206) 779-2010.

Wileywood Nurseries, 17414 Bothell-Everett Highway, Bothell 98011; (206 481-9768. Catalog costs 25 cents.

Emrick's Fuchsias and Begonias, 7303 Renton-Issaquah Rd. S.E., Issaquah 98 (206) 392-6779.

Fuller Hill Nursery, 413 Keyes Rd., El 98541; (206) 482-2996.

Sherry's Greenhouse, Smith Creek Rd Rt. 2, Box 350, Raymond 98577; (206) 942-5801.

Rhea's Fuchsia Garden, on Burton Peninsula; Rt. 2, Box 64D, Burton 980 (206) 463-9278.

Oregon: head for the Willamette Valley and south

Dott's Greenhouse, 11560 S.E. Stark S Portland 97216: (503) 254-3720.

Short's Place Nursery, 22522 S. Fellow Rd., Beavercreek 97004; (503) 631-280

Three Firs Nursery, on Amity-Hopew Highway; Rt. 1, Box 289, Amity 97101 (503) 835-2082.

Robert J. Herberger Greenhouses and Gardens, 2805 Chemawa Rd. N.E., Sal 97303; (503) 393-4264.

Dale's Flower Nursery, 474 N. 54th St.,

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ld 97477; (503) 746-4901.

n Greenhouses, 168 Alpine Dr., 97470; (503) 673-4900.

Nursery, 1690 E. Fork Rd., 97544; (503) 846-6156.

California: nearly e you look

ey Azalea Gardens, 2901 Elk Cross Rd., Crescent City 95534; 4-5785.

oods Nursery, 295 E St., 95521; (707) 822-2576.

Fuchsia Garden, 3413 Nevada St., 95501; (707) 442-3994.

Candy Nursery, 4330 Excelsior St., 95534; (707) 442-5566.

Nursery, 42867 Airport Rd., Little 5456; (707) 937-5125.

lle's Fuchsia Gardens, 32531 Rhoda ort Bragg 95437; (707) 964-0183.

Fern and Fuchsia Gardens, 31951 ay 20, Fort Bragg 95437; (707) 27.

arama, 23201 N. Highway 1, Fort 95437; (707) 964-0429.

cino Coast Botanical Gardens, on ay 1, 2 miles south of Fort Bragg; ragg 95437; (707) 964-4352. y is operated in conjunction with an ve display garden.

Bluff Fuchsia Gardens, 33625 Way, Fort Bragg 95437; 64-2190.

ood Grove Nursery, 8306 Bodega Ave., Sebastopol 95472; (707) 823-9465.

Soo Yun's Fuchsia Gardens, 8306 Bodega Ave., Sebastopol 95472; (707) 823-9465.

Forest Glen Nursery, 1000 River Rd., Fulton 95439; (707) 528-3376.

Empire Nursery, 3747 Guerneville Rd., Santa Rosa 95401; (707) 546-1113.

Guasco Fuchsia Gardens, 505 Aspen Rd., Bolinas 94924; (415) 868-1229. Open for retail sales 10 to 4 Wednesday, Saturday, and Sunday.

Dan's Fuchsia Garden, 601 Maclay Rd., Novato 94947; (415) 892-9696.

Fuchsia Odyssey, 427 31st Ave., San Francisco 94121; (415) 387-8622. Open by appointment only.

Marina Nursery, 3237 Pierce St., San Francisco 94123; (415) 567-4991.

Darlene's Fuchsias, 1144 Rosita Rd., Pacifica 94044; (415) 359-1972. Open by appointment only.

Betty Herrier, 175 Oak Rd., Danville 94526: (415) 837-7700.

Berkeley Horticultural Nursery, 1310 McGee Ave., Berkeley 94703; (415) 526-4704. This large general retail nursery has an extensive fuchsia collection in addition to many rare plants.

Fuchsia Forest Nursery, 9234 E St., Oakland 94603; (415) 562-7934.

Robert Morris Fuchsias, 2461 W. 134th Ave., San Leandro 94577; (415) 357-5806.

Bob Thomsen's Garden Center, 1131 Lincoln Ave., Alameda 94501; (415) 522-3265.

Western Garden Nursery, 28191 Hesperian Blvd., Hayward 94545; (415) 782-3083. This very large general nursery stocks large quantities of fuchsias.

Half Moon Bay Nursery, Highway 92, Half Moon Bay 94019; (415) 726-5392. This general nursery stocks many fuchsias in a wide range of sizes.

Andy Cracolice's Fuchsia Garden, 1088 E. Campbell Ave., Campbell 95008; (408) 377-7566. Call for appointment.

Elkhorn Nursery, 14177 Campagna Way, Watsonville 95073; (408) 633-4562.

Southern California: scattered all along the coastline

Valley Garden Center and Florist, 2646 Santa Maria Way, Santa Maria 93454; (805) 922-1758.

Leo's West Side Nursery, 1416 San Andres St., Santa Barbara 93101; (805) 966-6402.

Barbara's World of Flowers, 3774 Vineyard Ave., Oxnard 93030; (805) 659-4193.

Fuchsia Land, 4629 Centinela Ave., Los Angeles 90066; (213) 822-8900.

Bishop's Nursery, 850 N. Sepulveda Blvd., Manhattan Beach 90266; (213) 374-7058 or 379-5593.

McCormick's Fuchsialand Nursery, 12419 S. Laurel Ave., Whittier 90605.

Fire Mountain Fuchsias, 1482 Avocado Rd., Oceanside 92054; (714) 439-5175.

Stubbs Fuchsia Nursery, 770 Ocean View Ave., Leucadia 92024; (714) 753-1069.

Hastings Fuchsia Gardens, 302 S. Nardo Ave., Solana Beach 92075; (714) 755-1758. □

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TERI SAN

Already in pots, *these top-quality plants are tempting, even at $6*

For show-stopping begonias, three ways to start out

W. D. A. STEPHENS

Seedlings, *79 cents each, will be blooming plants in a few weeks*

Dig your own. *This $3 plant goes into pot for new owner*

Careful shopping for tuberous begon can be as important as the way you pl and water these vibrant shade lovers.

To get a show-stopping display of sauc size flowers, you must know what to lo for at the nursery. This month, there three ways to buy tuberous begoni here's your guide.

Blooming plants in pots. These give y exactly the color you want, fast. Pri range from about $2 for a 4-inch plant to about $6 for an 8-inch pot. T is the way to go if you want just a f showy plants in hanging baskets or co tainers on the patio.

When you shop, look closely at flow shape (perfectly symmetrical—see t example at the top of page 226), sta and flower stems (sturdy—flowe shouldn't nod), and compactness (leav should be plentiful and close together the stalk). If you can't find perfect spe mens, pass them by; a tuberous begon starting poorly won't age well.

Seedlings in small size. If you hurry, y will find these small plants not yet

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ERNEST BRAUN

Nine inches across, *perfect rose-form flower is yellow, with each petal edged in pink*

DARROW M. WATT

Two-inch plant *goes into bed after careful preparation of soil for drainage*

JERRY F

Staked for support, *tuberous begonias are centerpiece of bed in Hillsborough, Californ*

bloom. Sold in 2-inch plastic pots called "bands" for about 25 to 80 cents each, they're the best buy for a large planting in a bed or border.

Check labels carefully; don't buy hanging basket types to use in the ground. You will be taking a chance on flower form, but you have some control over color—the plastic bands are color-coded, approximating flower color.

To plant in the ground, prepare soil by mixing in generous amounts of leaf mold or compost—as much as half by volume. Set plants in the loose soil mix, watching the way the leaves point—most flowers will point the same direction. Unless you garden right on the cool, foggy coast, the bed should be in dappled or light shade. Apply snail and slug bait.

Dig-your-own plants. Two nurseries in California—one near Carmel, one near San Diego—grow begonias in the ground and permit you to select your own; they're included in the list at the end of this article. This is the least expensive way to choose for perfect form and color. It's a good outing, too.

Field-grown begonias cost about $2 to 3 each; pots, if needed, are less than $1.

How to grow. Tuberous begonias require protection from hot sun and wind and do best in moderate humidity. They are difficult to grow in hot inland areas.

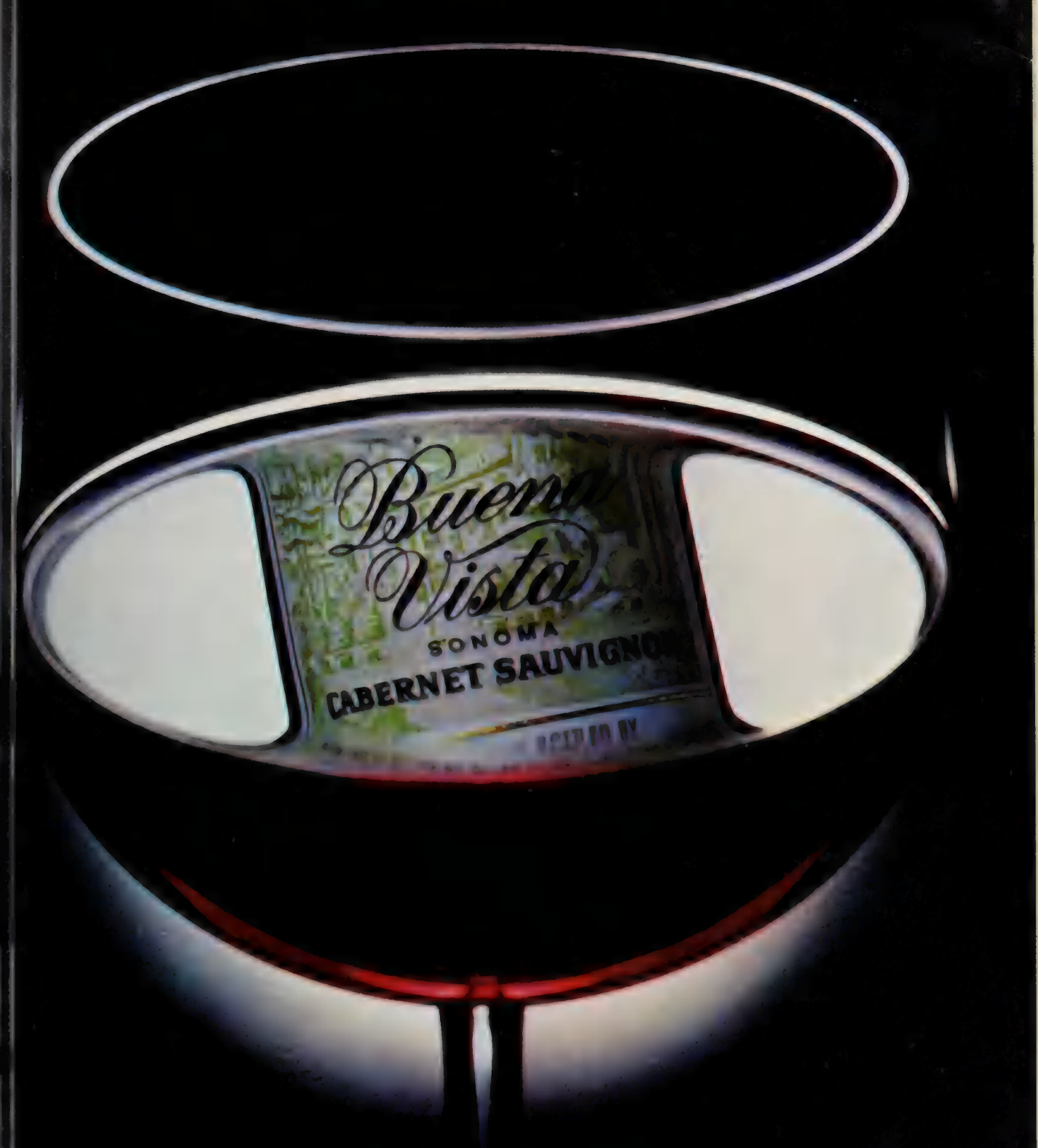
In late fall, when tops wither, tubers should be lifted, shaken free of soil, stored until pink buds appear in spri

While general nurseries carry tube begonias in climates where they ca grown, a wider selection and more tailed advice can be found at these t California specialists:

Antonelli Bros. Begonia Gardens, 2545 Capitola Rd., Santa Cruz 95062. Plants in pots only. Open daily 8 to 5.

Carmel Valley Begonia Gardens, 9220 Carmel Valley Rd., Carmel 93923. In po or choose your own; nurseryman will di Open daily except Wednesday, 9 to 5.

Weidners' Begonia Gardens, 695 Normandy Rd., Leucadia 92024. Dig-your-own begonias, a few in pots. O daily 10 to 5 mid-April through mid-September.



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DARROW M. WATT

blooms *of portulaca, about hes wide, appear a few after seed is sown*

Portulaca for right color soon

nering colors and a tough disposi- nake *Portulaca grandiflora* one of st summer annuals for bright color ny places. You may know portu- s rose moss or moss rose. Its small ike blooms smother the trailing and tiny succulent leaves with red, e, yellow, orange, pink, and white.

nstant color, you can buy plants in t nurseries now (set them 8 inches). Or you might want to sow seeds, h should give you blooms in four weeks.

est results with sowing, mix the tiny with damp sand and scatter them y in a flat filled with loose, pre- ened soil mix. Sprinkle a very thin of damp soil, vermiculite, or sphag- moss over the seeds. Portulaca seed- are so tiny that they won't be able eak through the soil surface if you them too deep.

r the container with clear plastic or and set in a bright spot out of direct Once they sprout, thin crowded ings. When they've developed into l plants about an inch across, you plant them in garden beds. Provide e for a few days. Portulaca also self- freely, but offspring often produce single flowers rather than double oms. □

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Just mix one envelope of Knox with one cup of hot tap water to dissolve. Then slowly add three cups of cold water to make a quart of liquid. Prepare only as much of the mixture as you plan to use at one time. Once a month, use the Knox mixture as part of your normal watering pattern and it will provide continuous nourishment to your plants between applications. You'll see amazing results. Like the ones we saw in our scientific studies which are shown above.

And remember to give your plants plenty of growing room by repotting them periodically into larger pots.

For fuller, greener, healthier plants, nourish them with Knox.

*3 applications

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Deckote is a premium quality polyvinyl acrylate coating with more style and more substance than paint. Special resins make it thicker. Reinforcers make it tough. Use Deckote on wood, concrete, asphalt or fiberglass. It's easy to handle, cleans up with soap and water and comes in ten rich colors that stay beautiful for years. This time put on a Deckote. It does a lot more than paint can.

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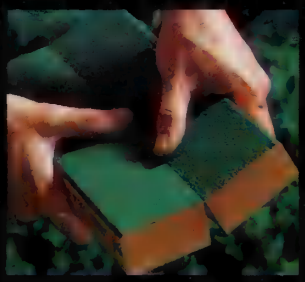

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Friedman Bros. Hardware
Seaside
H & H Lumber
Selma
Location
Scotts Valley
Scarborough Lumber
Sonora
Supply
South Lake Tahoe
Duke's Fuller Paint
Sunnyvale
Building Supply
Visalia
Woodland
Paint
Yuba City
Meek Lumber
COLORADO
Basalt
Valley Lumber
Glenwood Springs
Diamond International
Grand Junction
Denning Lumber
Montrose
Burkey Lumber
WYOMING
Evanston
Anderson Lumber
Bear River Lumber
Lander
Valley Lumber
NEVADA
Carson City
Handy Hands
Handy Helper
Gardnerville
Fuller Paints
Handy Hands
Reno
Answer Man
Flanigan's
Handy Helper
Sparks
Answer Man
G & C Home Supply Center
UTAH
Layton
Boise Cascade
Linden
Nattl Lumber
Murray
Cook Lumber
Ogden
Boise Cascade
Orem
Boise Cascade
Salt Lake City
Burton Lumber
Economy Builders
Sandy
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St. George
St. George Plywood & Lumber
Summit County
Summit County Lumber
Tooele
Boise Cascade
ERNST HOME CENTERS—
ALL LOCATIONS
UTAH, WYOMING AND
NEVADA

ALAN FAHREN BRUCH

Plastic bags *of potting soil with top sides cut open serve as instant planters for tomatoes in greenhouse*

Plant tomatoes right in a bag of soil? An English short-cut

Buy a bag of potting soil, punch half a dozen drain holes into the bottom with a pencil, slice open the top, and poke in some seedlings. No planting technique could be simpler and faster. More amazing, it seems to work.

The tomatoes pictured above yielded a generous crop in a greenhouse. We've also seen healthy crops of bush beans, lettuce, potatoes, and summer squash. Others report good results with beets, short carrot varieties, cabbage, eggplant, herbs, dwarf peas (in cool weather), peppers, and strawberries. Experiments in England have been so satisfactory that bags of soil there are sometimes manufactured with decorative borders for use as planters.

The drawbacks? Bags are awkward to move, only moderately strong, and plastic can look tacky. In warm-summer inland climates, plastic bags placed in full sun may trap too much heat.

But when you're in a hurry, planting directly in the soil bag may be just the short-cut you need. Experiment with a few bags to find the brand of potting soil that works best. Avoid soil mixes with a high percentage of peat moss—they're too hard to keep moist.

If you try planting in a bag, poke drain holes in the bottom, cut a small water hole in the center of the top side, and set a trickling hose over the hole until soil is soaked. Press bags to squeeze out excess moisture, add slow-release fertilizer, and plant. Outdoors, reduce evaporation and damage by squirrels, birds, or cats by cutting X-shaped holes just large enough to insert plant roots. Depending on mature size, plant two to eight seedlings to a 2-cubic-foot bag—two tomatoes, six to eight herb plants, or eight lettuce plants. Cut narrow slits for direct sowing of root crops, and cover their seeds with soil and moist sphagnum moss until they sprout.

Most bags hold moisture for five days to two weeks or longer. Test moisture with your finger before adding more. Bags usually last two to three years before they become brittle and fall apart. □

Maybe the busiest month in the garden... what with mulching, feeding, watering, weedi

Sunset's HIGH-ELEVATION GARDEN GUIDE

June brings postcard days to high-elevation cities and towns. Distant peaks may still be wearing a mantle of snow; high mountain parks will soon be robed with wildflowers.

What kind of gardening month is it? Maybe the busiest, as a look at the Check List on the opposite page will tell you. There's planting to do, as well as feeding, mulching, staking, watering, weeding—the whole spectrum of garden duties.

If your garden is looking particularly spectacular this month, you might consider capturing its beauty on film and entering *Sunset's* 1981 garden contest. See this month's *Sunset Garden Guide* for contest entry details.

Centerpiece tree *is four-year-old 'Sunburst' honey locust. Petunias grow in planter under iron-mesh table that provides light shade*

Promising new cherry variety for mountain gardens: 'Starkrimson'

A new variety of sweet cherry named 'Starkrimson' was introduced last year but was in short supply. It should be easier to buy this year.

'Starkrimson' is a late bloomer, which makes it less susceptible to the late spring frosts that can hit mountain gardens. The tree is naturally semidwarf (about 10 to 12 feet high with a spread of 7 to 9 feet). It's also self-fertile. This tree is precocious, often beginning to set fruit after only two or three years.

The fruit is about ¾ inch in diameter, with a high sugar content. It's ready to eat when it turns red, but sweetness increases if you leave it on the tree until the color deepens to an almost black-red.

A mail-order source for 'Starkrimson' is Stark Bros. Nurseries, Louisiana, Mo. 63353; write for a free catalog.

Front-running shade tree candidate: honey locust

Last year, *Sunset* asked a panel of landscape architects and contractors for their nominations for top-performing shade trees for mountain gardens. One of their most-repeated choices: the honey locust (*Gleditsia triacanthos*).

The reasons they liked it so much were simple: it withstands heat and cold, takes almost any kind of soil, leafs out late, and goes dormant early in fall, which makes it a good tree for planting in lawns, which need sunlight. The leaves are divided into ¾- to 1½-inch-long leaflets which cast a delicate filtered shade. Older trees reach 60 to 70 feet, but many stay smaller—about 25 to 35 feet—making them good trees for small areas, as in the picture at left.

There are many named varieties you can buy. *G. triacanthos inermis* is thornless; 'Rubylace' has deep red new growth; 'Sunburst', a fairly new variety, has golden yellow new growth. 'Moraine' is the best-known variety; its bra angle upward, then outward. 'Skyli more pyramid-like than 'Moraine'. perial' casts the densest shade. H locusts sell for $10 to $17 in 5-g containers. They grow quickly.

Where are all those grass clipping going in Northglenn, Colorado?

A suburb of Denver, Northglenn approximately 29,000 residents. A 9,000 households produce some 40 cubic yards of lawn clippings a Most of these used to be trucked t city dump.

In the past few years, however, an i vative citywide program to compost pings has reduced Northglenn's vol of solid wastes by 40 percent, cut bage hauling costs, and returned a able product—finished compost. H how it's done.

City workers collect lawn clippi which are usually bagged separately homeowners, and take them to a c posting site run by a private contrac There, after composting, the contra sells back much of the organic matte the city at his cost. The city uses it planting and mulching in parks. contractor sells the rest to make a pr

The nitrogen content of this compo about 2.5 percent. (All organic fertili rank between .7 percent and 13 perc nitrogen.)

Community leaders interested in No glenn's system can find out more fr Jack DeBell, DNR, Box 33817, No glenn, Colo. 80233; (303) 452-8326.

View the new additions at Denver Botanic Gardens

Over the past several years, the Den Botanic Gardens has undertaken one the most ambitious building-landscapi planting projects of any botanic insti tion in the West.

On Wednesday, June 3, from 4 to 8 P. you're invited to view the latest additic to the garden: an alpine rock garden, alpine greenhouse, and an orchid a bromeliad pavilion. You'll also be a to get a sneak preview of the nea completed Scripture garden (the plant for this garden comes from the Bibl Volunteer docents will be on hand each of the new gardens to explain fe

tell you about the plants. In the ck garden alone are more than ants, representing 2,000 species. otanic Gardens is at 1005 York dmission to the gardens and to are free; there is a suggested of $1 for adults, 25 cents for For more information, call -2547.

te frosts threaten, countermoves

rden diary two years ago, Flag- ener Ann Johnson recorded two ring June—a reading of 29° on d a dip to 25° on June 18. "We t-burned leaves on dogwoods, and crabapples. Tiny strawber- blueberries were lost com- She devised this plan of action ing late frosts. You might try her methods if a frost is forecast rea.

rost threatens, do not water nless they desperately need it. ches away from plants during (if weather is warm) to permit o collect heat. Then, before tem- s cool at night, cover plants with boxes, or *dry* mulch materials ppings are ideal). Dark rocks or inted jugs filled with water and ng plants all day give off some eat during cold nights. Raised beds also help, since frost settles laces.

Two new sources for short-season vegetables, flowers

Seeds for vegetable and flower varieties well suited to areas with short growing seasons are often difficult to find. A new source for plant varieties adapted to such climates is Cameron Seeds, 4141 Springhill Rd., Bozeman, Mont. 59715. The firm's catalog ($1) lists vegetable seeds that mature quickly, as well as plastic tunnels, solar greenhouses, and other aids to gardening in cool climates.

The second source, Plants of the Southwest, stocks seeds of 29 different kinds of short-season vegetables, many with three or four different varieties from which to choose. The firm also sells herb seeds, wildflower and native grass seed mixtures, and seeds of traditional Southwestern crops such as blue corn. For a free catalog, write to Plants of the Southwest, 1570 Pacheco St., Santa Fe 87501.

Shadow box for geraniums in summer, dried decorations or wreath in winter

"When I tried to hang a wreath on the outside wall of our house several years ago, it kept blowing off in the high winds we have here," Mrs. Robert Hall of Georgetown, Colorado, told *Sunset*. To solve the airborne wreath dilemma, Mr. Hall built the wooden frame (pictured above, right) from rough-sawn cedar 1 by 6's. The frame is nailed securely to the house siding.

DON NORMARK

Wall-mounted *shadow box built from rough-sawn cedar 1 by 6's protects potted geraniums from wind*

In winter, the Halls hang a wreath inside the frame or stuff it with dried sunflowers and apples for birds to eat.

In summer, the 32-inch-square frame is just big enough to hold half a dozen 5-inch pots of geraniums—a good choice since geraniums can take the heat and intense sunlight in the Hall's 8,200-foot-elevation garden. □

JUNE CHECK LIST: *Feed, mulch, plant, prune, stake, water*

☐ **Feed perennials.** Flowering perennials need feeding now with 2 or 3 pounds of high-nitrogen fertilizer per 100 square feet of bed. Water thoroughly after fertilizing.

☐ **Mulch.** Spread a 2- to 3-inch-thick layer of pine needles, bark chips, or compost around permanent plants to enrich soil, conserve water, and slow weed growth. In the vegetable garden, black plastic mulch heats the soil for warmth-loving plants and saves watering and weeding.

☐ **Plant annual flowers.** Early this month, set out transplants of African daisy, bachelor's button, calendula, clarkia, cleome, godetia, linaria, lobelia, pansies, snapdragons, sweet alyssum, sweet William, verbena, and violas. If you're fairly sure frosts are past, set out warmth-loving marigolds, petunias, and zinnias.

☐ **Plant bulbs, corms, tubers.** For late-summer color, plant gladiolus and montbretia corms, tigridia bulbs, peacock orchids, and dahlia tubers.

☐ **Plant strawberries.** If you missed bare-root season, plant strawberries from sixpacks or pots now. Give them loose soil, full sun, ample water.

☐ **Plant vegetables.** Sow seeds of beans, corn, cucumber, squash, pumpkin, and watermelons. Sow successive crops of beets, bush beans, corn, chard, carrots, and radishes. Set out started transplants of eggplant, tomatoes, peppers.

☐ **Prune most spring-flowering shrubs.** Remove the oldest branches of forsythia, flowering quince, lilac, spiraea, *Rosa hugonis*, and weigela. Cut off stems at base; remove about one-third of the oldest growth.

☐ **Stake tall plants.** Stake tall or heavy plants such as dahlias, delphiniums, double peonies, gladiolus, and tomatoes.

☐ **Thin fruits and vegetables.** Remove the smallest apples, apricots, peaches, plums, and pears. Thin the weakest beets, carrots, lettuce, and turnips. After thinning vegetables, feed plants with a complete fertilizer.

☐ **Treat chlorotic plants.** Yellow leaves with green veins are often a symptom of mineral deficiency in plants, a common ailment in alkaline mountain soils. Apply products containing chelated iron, zinc, manganese, and other trace minerals according to the label instructions.

☐ **Water.** Regularly deep-water established trees, shrubs, and ground covers; late afternoon or evening watering is best for these plants. However, morning watering is best for warmth-loving vegetables, so that they have all day to heat up. See page 117 of last month's *Sunset* for a report on water-saving irrigation systems.

Bamboo palms
Chamaedorea

Clumping, bamboo-like growth gives Oriental effect to *C. costaricana, C. erumpens,* and *C. seifrizii.* Leaves are dark green. All grow slowly. Eventual height for *C. erumpens* is 5 feet; the other two reach 8 to 10 feet. Frost tender.

Exotic indoor plant, or in shady spot outdoors. Give ample water. Trim as needed.

Pigmy date palm
Phoenix roebelenii

Miniature palm has soft feathery leaves, medium brown trunk. Very slow growing to about 6 feet. Suffers when temperatures dip to 28°.

Good pot plant. Does best outdoors with some shade; prefers a bright spot indoors. Defies the wind. Gets by with moderate watering, trimming.

King palm
Archontophoenix cunninghamiana

A winner in Southern California, this regal palm has 8- to 10-foot-long dark green leaves. Handsome amethyst flowers. Fast growing to 20 to 40 feet (oldest can be 60 feet). Established trees take 28° frost.

Self-cleaning. Best out of wind, with abundant water. Needs part shade inland. Resents transplanting when large. Not for desert.

Paradise palm (Kentia)
Howeia forsteriana

The hotel lobby palm —almost indestructible indoors. Dark green leaves arch from trunk that grows smooth with age. Grows slowly. Can reach 20 to 30 feet; most are shorter. Happiest in frost-free areas of Southern California, but has survived 25°.

Needs occasional trimming. Prefers part shade on coast, needs full shade inland. Tolerates wind.

Queen palm
Arecastrum romanzoffianum

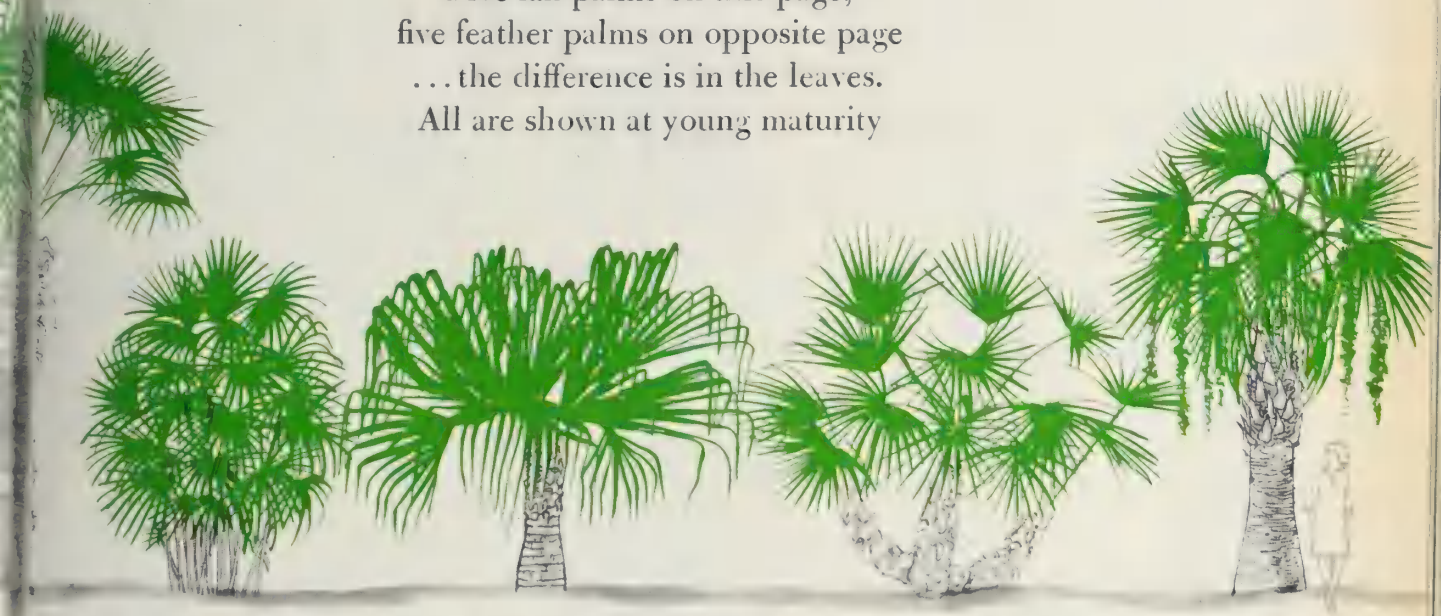
A majestic accent in the garden, with lush plume-like leaves 10 to 15 feet long. It grows fast, eventually reaching 30 to 50 feet. Suffers in 25° frost, but has been known to survive 16°.

Prune as needed. Abundant water and fertilizer will keep it looking its best. High winds may break leaves.

Not messy, not spiny, not seven-story overachievers

These are palms that behave themselves

Five fan palms on this page,
five feather palms on opposite page
. . . the difference is in the leaves.
All are shown at young maturity



d ill palm
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Lady palm
Rhapis

Aristocratic palms with dark green, glossy leaves on multiple stems. Very slow growing: *R. excelsa* reaches 5 to 12 feet; *R. humilis* can get up to 18 feet. Expensive. Hardy to 22°.

Prefers rich, moist soil. Protect from wind, full sun. Needs little pruning.

Chinese fountain palm
Livistona chinensis

Drooping tips of the beautiful dark green leaves suggests a fountain. Palm remains trunkless for years. Grows slowly to about 15 feet; develops large head 9 to 12 feet across. Takes cold down to about 22°.

Self-cleaning, but only after leaf bases rot, so you may want to prune sooner. Resents wind, hot afternoon sun.

Mediterranean fan palm
Chamaerops humilis

A champion that can take cold down to 6°, endure hot sun, and still retain its good looks. Slow growing to 20 feet high and as wide. Leaves are green to silvery; brown trunks curve gracefully.

Without pruning, it clumps. Prune to one trunk, or several for South Seas effect. Watch for sharp spines on leaf stems. Stands up to wind, drought.

Mexican blue palm
Brahea armata

Silvery blue leaves make this palm a standout. Mature specimens produce striking 9- to 12-foot stalks of white blooms. Poking along at 6 inches per year, this palm can reach 40 feet. Hardy to 18°.

Prune old leaves each season; beware of spiny leaf bases. If water is adequate, doesn't mind heat or wind.

pushy palms have earned all an undeservedly bad reputation welcome guests in home gardens. gh these "problem" palms (see 38) can be spectacular in a park, a boulevard, or in a large garden, enerally do not adapt well to sub- living.

each colossal size in short order, ave the nasty habit of dropping a eaf just when your car is parked The rest of the time, they persist ging onto old fronds no matter ismal they look. And it's usually ggle to remove these tough spiny

ve the trees' reputation and guide fans to specimens for home gar- we consulted 28 experts (including ape architects, extension special- nd dedicated growers). They helped ect the top 10 palms illustrated above. The five on opposite page are feather palms, the ones on this page are fan palms.

Heights shown are for trees at young maturity (15 to 20 years from 1-gallon size). Growth rates are averages, since palms generally grow fastest when very young and very old. Also, in selecting a palm, remember that the very slow-growing ones such as Mexican blue palm and Chinese fountain palm are basically large shrubs when young, and develop into trees later as the trunks lengthen.

Of course, you may find some of our nominees more appealing than others. These 10 won enough "yes" votes to guarantee a spot on our chart, but some were better loved than others. For example, windmill palm (*Trachycarpus fortunei*) generated the most controversy: "To me, all parts of the windmill palm (foliage, trunk, blooms) are attrac-

Queen palms *grace entry of Spanish-style house. Warm, south-facing wall helps them survive Tucson frosts*
DAVID STUBBS

tive." "This palm is ideal for small gardens." "It is a distinctly vertical accent." ". . . not messy, but not handsome." ". . . a once popular (if misguided) street tree in Southern California." "It needs other plants."

No matter which of these 10 best suits your taste and garden needs, none would overwhelm your garden, and all require only modest maintenance and can be purchased at most nurseries.

Plant palms now

The ideal time for planting is in spring and summer after temperatures start to rise. Warm soil speeds root development and helps get the palm off to a fast start.

In desert areas, where young palms may get sunburned, it's a good idea to provide some shade after planting. If this is impractical, you can protect the young growth bud in the center by tying up the older leaves above the bud. (Don't forget to untie the leaves after the plant is established.)

Although they have a reputation for being drought tolerant, palms can take a surprising amount of water; they may develop yellow or brown leaf tips if they go too long between waterings. They prefer rich, fast-draining soil and appreciate fertilizing during periods of active growth. In areas with highly alkaline soil, apply iron to discourage chlorosis.

In selecting a palm for your garden, notice in the descriptions accompanying the drawings that some like sun, others prefer shade. Some can tolerate wind very well, while others will get shabby if regularly subjected to blustery conditions. Frost is often a critical factor, so choose a palm that can stand up to your climate's lowest temperatures.

BILL ROSS

Long-handled pruning saw *makes king palm maintenance easy in George and Dorothy Morgan's Fullerton garden*

Poolside sun and heat *are not a problem for sturdy 4-year-old Mediterranean fan palm in container*

Most of these palms can adapt to container living, although their growth rate will be slower. And when planting a group of palms, you should use only one species for the most attractive effect.

Keeping them neat

Pruning benefits even palms that are self-cleaning (i.e., that drop their old, faded leaves). Usually, it is best to wait until leaves have dried before removing, since slicing off still-green foliage can increase the chances of disease invading. However, some growers prefer to trim off the leaves as soon as they start to look shabby: the stalks are softer and often easier to cut then.

An ordinary saw, pruning saw, or pruning shears will be adequate for small palms. For taller specimens, use a saw attached to an extension pole, as in the photograph above.

To avoid seed drop and the nuisance of little palms sprouting up everywhere, prune off the blossom stalks before the seeds have a chance to mature and drop. However, the seed stalks on many palms are quite beautiful and may be worth the later cleanup.

"Problem" palms

Although every palm has some fr there are a few that have earne marks as home garden specimens example, Mexican fan palm (*Wa tonia robusta*) and California fan (*Washingtonia filifera*) are very a tive when young, but eventually s 40 feet or more. The Canary Island palm (*Phoenix canariensis*) and date palm (*Phoenix dactylifera*), reach a towering 60 to 80 feet heads that spread 50 feet and trunks 2 to 4 feet wide.

Palms such as these are best used they won't be cramped, in parks street trees.

The palm society

To learn more about palms, you want to join the Palm Society, an i national organization with numerou gional chapters. Members receive quarterly journal *Principes*, which lishes articles on palm culture, palms, and other related topics. M bers can join the seed bank to ob hard-to-find species. Write to Palm S ety, Box 368, Lawrence, Kansas 6604

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JUNE EVENTS: Shows, exhibits, fern, bonsai, bromeliads, herbs, much o

NORTHERN CALIFORNIA

Sacramento. June 6 and 7. Annual show by the Sacramento Fern Forum. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

Saratoga. June events at Saso Herb Gardens, 14625 Fruitvale Ave. Reservations are necessary; telephone (408) 867-0307. On all dates except June 7, bring a bag lunch and cup.

June 6 and 13. Two-day workshop on culture and use of herbs. Hours: 9:30 to 3 both dates. Fee: $30.

June 7. Herb lecture tour of the gardens. Hours: 1 to 4 P.M. Fee: $5.

June 11. Workshop on growing and using materials for dried flower arrangements and herbal crafts. Hours: 9:30 to 3. Fee: $15 (including supplies).

June 27. Workshop on creating a wreath of dried flowers and herbs from field and garden. Hours: 10 to 2. Fee: $25 (includes supplies).

Mill Valley. June 7. Annual bonsai exhibition presented by the Kinmon Bonsai Aikokai. Place: Buddhist Temple, 390 Miller Ave. Hours: 10 to 5:30. Free.

Vallejo. June 7. Bonsai exhibit by the North Bay Bonsai Club. Place: Florence Douglas Senior Center, 333 Amador St. Hours: 11 to 6. Free. A bonsai expert will demonstrate the technique at 2 P.M.

San Francisco. June 13. Annual plant sale presented by the San Francisco African Violet Society. Place: Hall of Flowers, Golden Gate Park, Ninth Ave. and Lincoln Way. Hours: 11 to 4. Admission is free.

Sacramento. June 13 and 14. Annual show by the Sacramento branch of the American Fuchsia Society. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

Modesto. June 14. Miniature rose show and meeting by the Modesto Rose Society. Place: Boy Scout Clubhouse, Enslen Park, on Stoddard Ave. between W. Morris and Enslen avenues. Time: 2 P.M. Free.

Vacaville. June 14. Vaca Valley Bonsai Club annual show. Place: Vacaville Community Center, 1100 Alamo Dr. Hours: noon to 5. Free. Demonstration of bonsai techniques at 2 P.M.

Sacramento. June 20 and 21. Show by the Sacramento Bromeliad Society. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinl Hours: 2 to 6 Saturday; 10 to 5 Admission is free.

COLORADO

Denver. June 3. Presentation to of completed gardens within the Botanic Gardens; see page 234.

Colorado Springs. June 6. An show presented by the Elmohr ciety. Place: Pikes Peak Y/USO Nevada Ave. Hours: 1 to 5. Fre

Denver. June 6. Plant sale by t Violet Club in conjunction w Gloxinia-Gesneriad Growers. Denver Botanic Gardens, 1005 Y Hours: 10 to 4. Free.

Denver. June 8. Class on be wheat weaving. Place: Classro Denver Botanic Gardens. Hour 10 P.M. Fee: members, $7; nonme $9. Class size is limited; call the at (303) 575-2547 for reservation

Denver. June 9. Class on making teas. Place: Classroom B, Denv tanic Gardens. Hours: 9 to 11 A.M members, $5; nonmembers, $7. size is limited; call for reservation

Denver. June 10. Expert advice proper care of orchids and brom bring your plant if you wish. Classroom B, Denver Botanic Ga Hours: 9:30 to 11 A.M. Fee: mer $2; nonmembers, $3.50. Call for vations.

Colorado Springs. June 20. A pr on rock gardens presented by the cultural Art Society. For further mation, telephone the secretary at 599-0231.

UTAH

Farmington. Visit the display garde Utah State University Experim Horticultural Gardens Station. young and well-established exampl the same plant offer help in cho landscaping material. Older kind fruit trees and annual vegetables grown there as well as the new vari Turfgrass plots offer a comparison many types and their performance i climate zone. Hours: 8 to 5 daily. Fr

Salt Lake City. June 17. Tree walk talk with W. Richard Hildreth, dire of the State Arboretum of Utah. S ject: evergreen and deciduous shrubs landscaping. Meet in front of the A retum Center, University of Utah, P.M. Free.

Untraditional gifts for traditional occasions.

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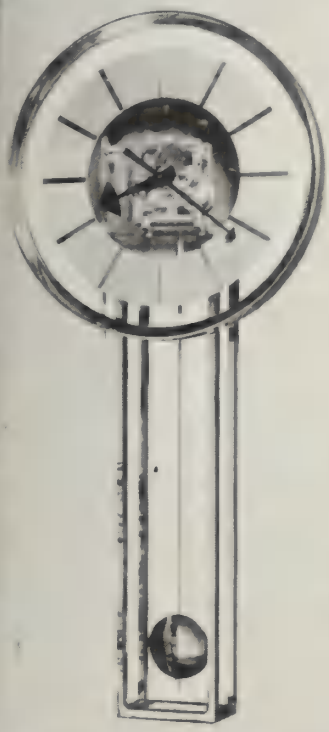
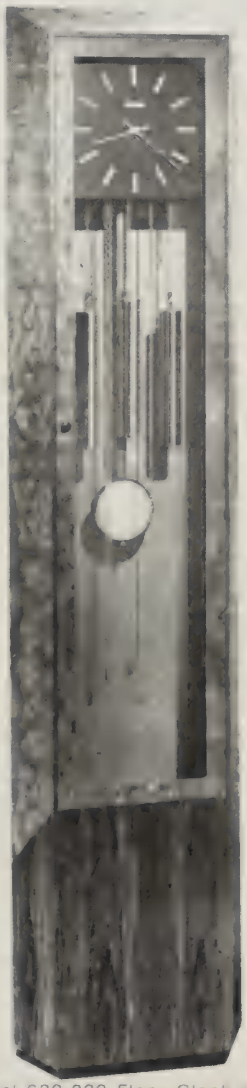


Model 622-782 has a chrome brass and plexiglas case Visible keywind chiming movement 33¼" x 15¼"



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MICHAEL

Rare white form *of Lewisia cotyledon is grown here in container. Most are pink, rose, red, salmon—plain or strip*

Today's lewisia is less fussy

Difficult to grow? *Lewisia cotyledon* that reputation, probably because Br rock garden experts have often wa about its susceptibility to dampness. tually it's not unusually hard to grow thousands of thriving plants in the will testify. It is, after all, a native northern California and Oregon.

Perhaps this lewisia is becoming ea with time. Most plants now being are seedlings from several generation home- or nursery-raised plants; the fu ones have perished over the years. Us prescriptions for growing it call fo sunny (but not hot) location, or pre ably light or afternoon shade; a gri fast-draining soil with a mixture of ganic material; and freedom from sta ing water. One successful grower use 50-50 sand and redwood sawdust with slow-release fertilizer.

Plants are in bloom now. If you're luc enough to live near a nursery that se lewisias (few do) you can pick a plant bloom. Flower colors range from pu white and yellow (both extremely ra through white and various shades pink, salmon, and rose to near-red wi darker stripes of these colors. (Ma order nurseries specializing in rock ga den plants sell lewisias for shipping early spring and fall.)

Seed planted when ripe (usually midsum mer) will sprout in spring. A seed sourc is Far North Gardens, 15621 Auburn dale Ave., Livonia, Mich. 48514; catalo costs $1.

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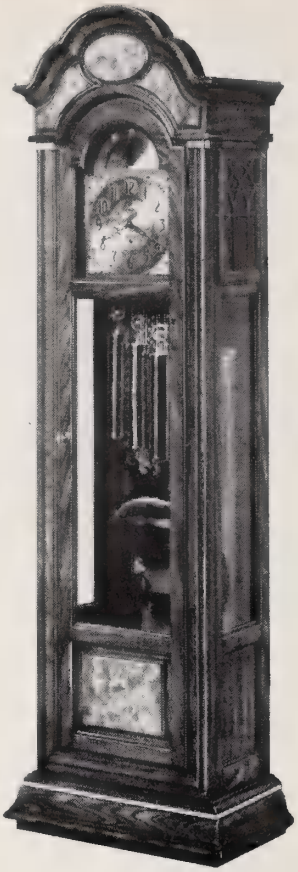

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Leafy wall *across this deck consists o 9-foot-high scarlet runner beans*

Flowers, leave beans make a w

Scarlet runner beans aren't u thought of as deck plants, but A Lil Feist of Seattle found that the brilliant red flowers and vining leaves were just right for their facing second-story deck. Thoug plants get little direct sun, they pro beans as well as flowers every year

Running the width of the deck, the is made entirely from cedar 1 by It's small and light enough to be em and stored during the winter. To ho off the deck, two 5-inch pieces wer from a 1 by 12 and nailed across bottom of the box a foot from each

Twine for the beans to climb is tie an L-shaped support frame of scrap ber nailed to the house and railing.

The beans grow in a mixture of soil peat. Just before planting time e year, it's renewed with additional and soil, plus a complete fertilizer.

You can plant scarlet runner beans month—but no later. Start harves about nine weeks later (eat as snap be when young, or shell and cook like beans at maturity).

If you can't find scarlet runner b seeds in vegetable seed racks, ch flower seed racks or seed catalogs.

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His marigolds *will ready the garden for company tomorrow; hers will take several weeks to flower, but blooms will be more plentiful*

Flowers tomorrow or in a few week

To add garden color with bedding plants this summer, you have two ways to go:

Instant color. Buy annuals already in flower. More and more gardeners want color quickly, so they buy this way: many growers respond by offering few annuals in any other form.

Plants in flower are good if you expect visitors tomorrow and must prepare the garden today. For season-long performance, though, it's much better to look for small plants that haven't yet formed flower buds.

Long-range planting. Look for flowerless plants at the nursery, even if you have to ask for them. Some people think such plants are too young to put into the garden, but that is far from the truth..

Annuals grow fast. In many cases, a plant that is 3 inches tall now will be twice as big and have flower buds in a week or two. And there are important reasons for buying them this small.

First, plants will accustom themselves to your garden conditions more easily. (Ones already in bloom sometimes will drop flowers after being transpla Since you start feeding as soon as leaves or branches form, this means can begin fertilizing more quickl speed growth. Small plants are not li to be rootbound, which can stunt gro

Next, you can pinch early to pro branching and bushiness, which m more flowers. If you buy plants in flo you cannot pinch without losing flow many tall-growing kinds will get l and you will have to pull them out ea than might otherwise be necessary.

To get best performance, feed ann consistently with complete fertilizer lowing label directions, or apply a c trolled-release fertilizer when plantin

June is a fine month to shop and p for summer-fall bloom. Plants in n eries now include ageratum, begon (semperflorens), *Catharanthus* (v rosea), celosia, coleus, dahlias, diant dusty miller, impatiens, lobelia, m golds, petunias, portulaca, salvia, Sha daisy, sweet alyssum, sweet William, a zinnias.

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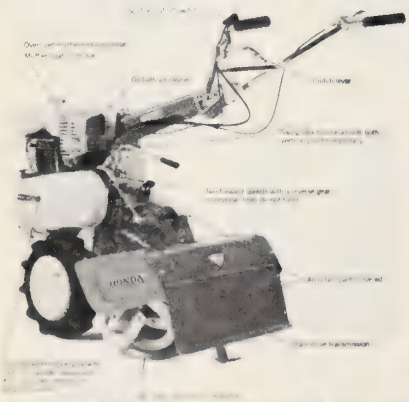

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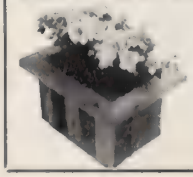

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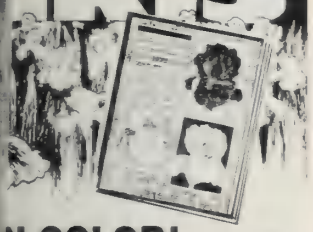

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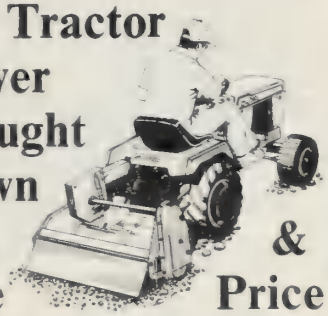

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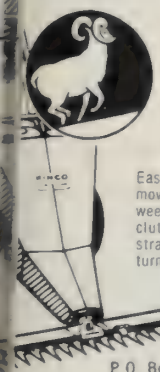

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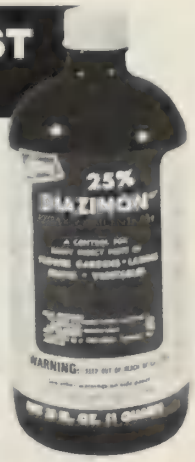

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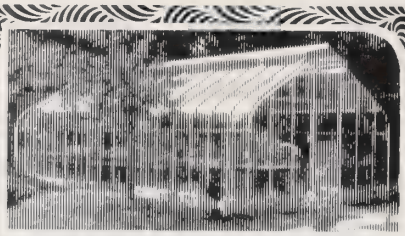

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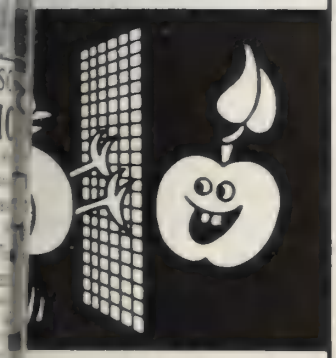

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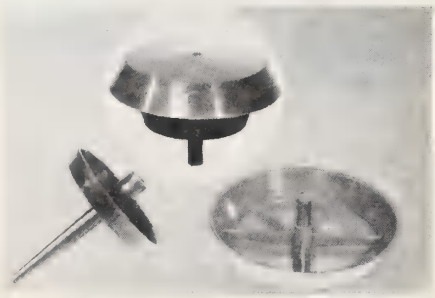

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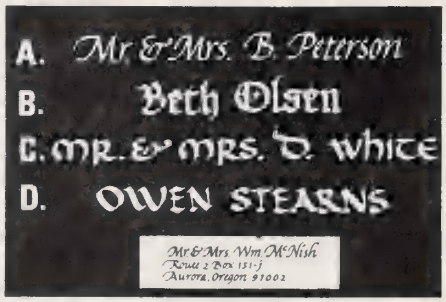

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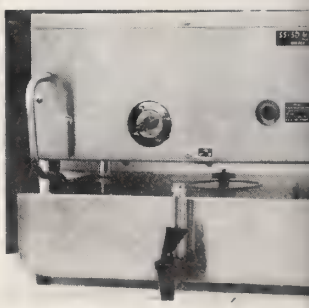

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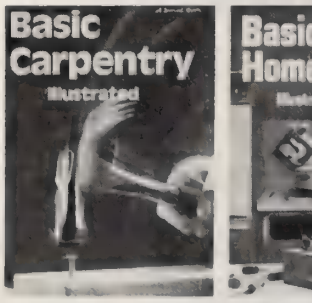

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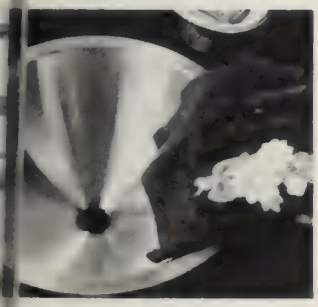

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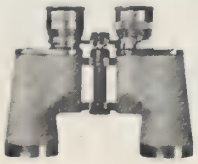

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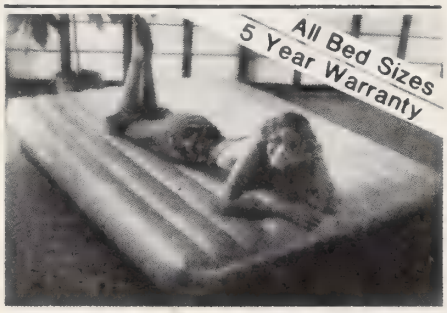

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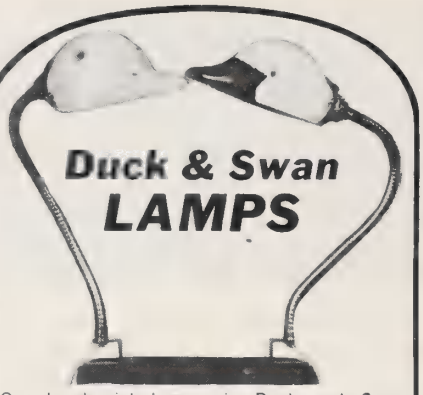

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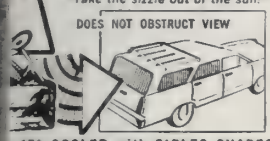

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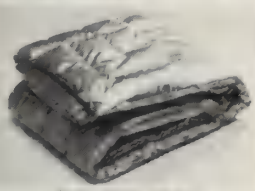

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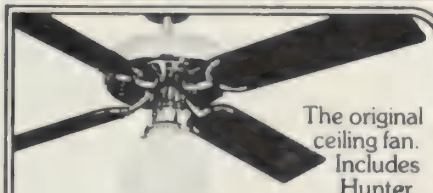

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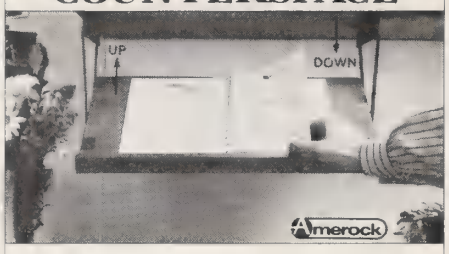

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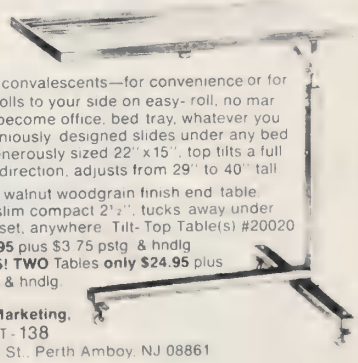

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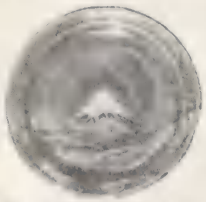

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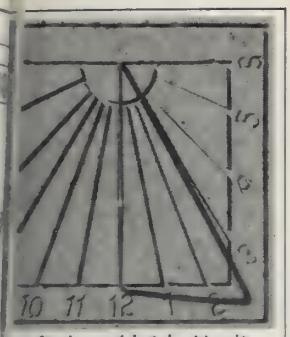

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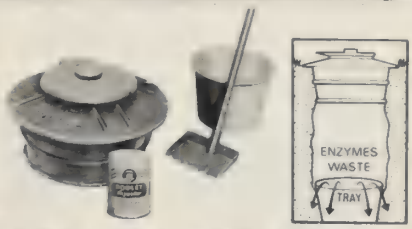

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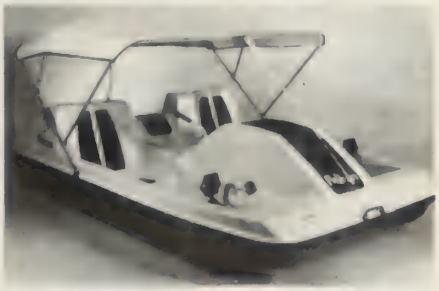

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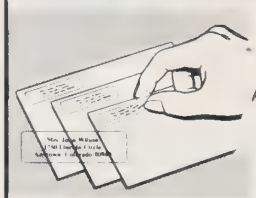

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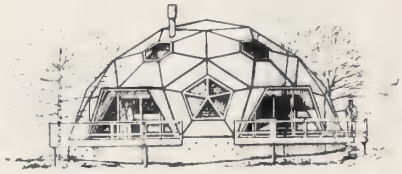

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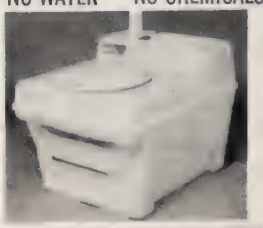

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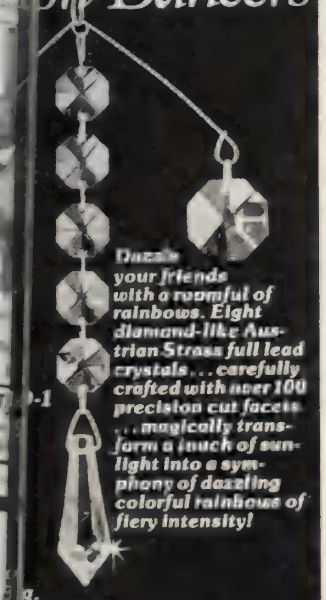

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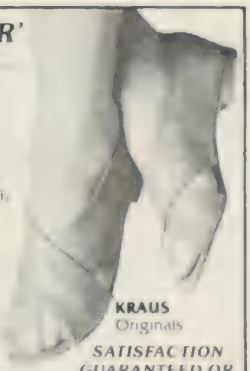

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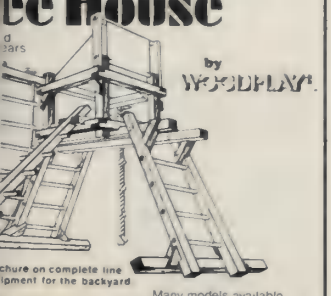

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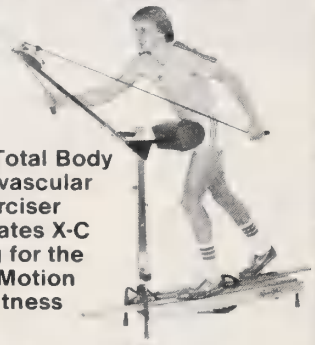

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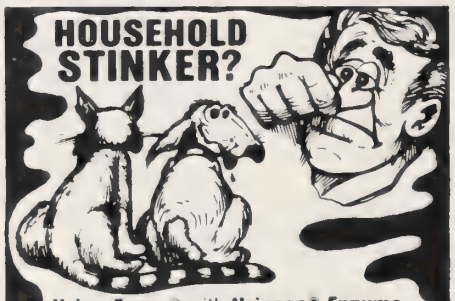

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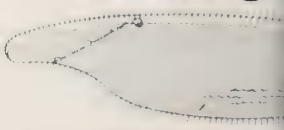

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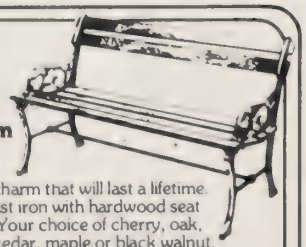

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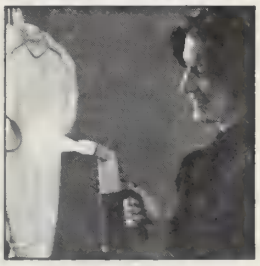

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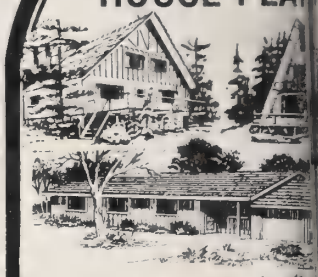

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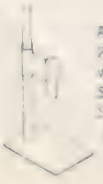

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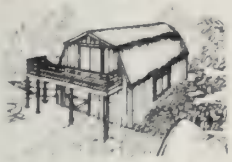

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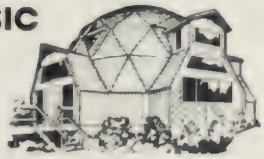

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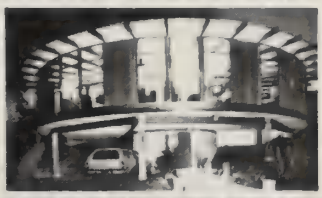

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LETTER FROM *Sunset*

We often go back to scho

This month's feature on heat-blocking window treatments wo been complete without the assistance of the University of C Lawrence Berkeley Laboratory. Drawing on data from its E cient Windows Program, we were able to compare the effec various approaches. You see the result charted on pages 100

That is just one example of the academic underpinnings of *Su* tent. Because of our alliances with universities, colleges, an research centers, a surprising amount of academic research opment reaches the public first through the pages of *Sunset*.

Our most frequent resource: agricultural extension speciali known as "county agents"—who are part of each state's colle They're often the best source of unbiased information on lo gardening developments, such as new lawn grasses. Nearly eve they share their time and resources with our editors: for a re on citrus, the superintendent of a University of California fie personally picked, packed, and shipped a dozen varieties of cit for a color photograph.

Many departments of botany, horticulture, and landscape ar contribute additional expertise. Other gardening projects call f help. Recent sources include Colorado State's School of Fores ing firewood at home), Floriculture at UC Davis (preserving eu and Horticulture at Oregon State University (new Northwest fi

Our food editors get frequent advice. University food technolog with innovations in such areas as meat curing, canning, and s bread chemistry. UC Davis' enology department is a constant winemaking expertise. Crop specialists advise us on new form duce; for example, the University of Hawaii brought us up-t new papaya strains for our May article. And recently, a Stanfo lurgist was deeply involved with *Sunset* research into cooking

Our building editors, of course, turn to architecture schools. of their other sources can be surprising. A Stanford mechanical provided valuable insights for an essay on cantilevered room a New Mexico's Los Alamos Scientific Laboratory (actually ope the University of California) is a steady source of passive so while Arizona's Environmental Research Laboratory pursues ne cooling technologies.

Even *Sunset's* travel reporters have academic help. Eight New anthropologists contributed until-then unpublished research feature on Chaco Canyon; sociologists and others at Hawaii we background sources for our February article on the renaissance waiian culture. Meeting with *Sunset* editors in Reno and Spai bers of Nevada's Basque Studies Center brought depth to a fe Basques in the American West. And of course, Western colle puses themselves are frequent subjects of *Sunset* articles.

We are fortunate to have such a broad resource at our disposal. siderable measure, Westerners have the highest per capita education in the nation; and as a fast-growing region, we also remarkable number of higher learning centers. All of us bene this academic wealth, but *Sunset* owes a special debt.

WINDOW ON THE WEST: *Drip research*

A long line of beakers measures water flow from drip emitters—part of ongoing tests conducted by Professor Joseph You-Tsai Hung of Cal Poly-Pomona, a principal contributor to *Sunset's* May 1981 drip irrigation article. His work in home garden design also led us to the drip-watered garden reported on page 90 of this issue. Other irrigation research took editors as far as the Hebrew University at Rehovot, Israel.

Photo: Pesin
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½ cup sliced green pepper
1 cup diced celery
4 fresh mushrooms, washed and sliced
8 leaves Boston lettuce
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4 tomato wedges
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½ medium onion, finely chopped

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On the Kohala Coast of the Big Island of Hawaii

Sunset* The Magazine of Western Living*
THE PACIFIC MONTHLY *

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The Cover Story

On this month's cover is one of the newer breed of pools —small, compact, maybe not even looking like anything you could swim or paddle around in. They take less water, use less energy to heat. Turn to page 68 for a look at other choices. Photograph by Glenn Christiansen

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July travel . . . in and beyond the West

NORMAN A. PLATE

Snorkeler in Sacramento River *holds prize from the river bottom—two feisty crayfish. More cautious crayfishers might wear rubber gloves*

Tasty bits *of meat (above) are worth the cleaning effort. Tubular trap (left) collected dozens of crayfish in a few hours. Bait was a can of dogfood with holes punched all over*

Hunting the Delta and Bay Area crawdad

In a dank Louisiana bayou, surrounded by gnarled oaks laced with Spanish moss, you may expect to encounter the "mudbug of the bayous." But crayfish in northern California? Actually, they're nearly as abundant here as in the South, where crawdads are a sought-after delicacy. They're easy to catch, and once you eat one, you'll be hooked.

This fresh-water cousin to the lobster is found in the streams and lakes of many parks in the Delta and even the Bay Area (they can only be taken on public property). With some simple equipment, a fishing license, and patience you can

The small chair and six others . . . no

GLENN CHRISTIANSEN

Scaled-down chair *being examined by builder Crosby and art director Carol Goforth lost out to commodious Adirondack-style model below*

The chairs you see in the photograph include the winner and one of the also-rans for the unofficial title of "The chair that won the West."

These chairs and six other contenders were built by staff editor Bill Crosby, then tested by other *Sunset* editors, who sat down in each to evaluate comfort and appearance. All were used outdoors for more than a year.

Of the small chair, one unpleased sitter wrote: "The seat isn't very wide—in fact, I don't fit." Even the unrefined design of the winning chair drew negative comment: "It snagged my stockings."

Crosby took such criticism into account in developing the full-size chair featured in the article on page 76. It shouldn't snag stockings. □

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get enough crayfish for a tasty meal.

The West's native variety (*Pacifasta leniusculus*) reaches about 6 inches l and can be brown, red, or green u cooked, then turns bright red. It like hide in rocky areas, and since it's n turnal, your chances of success are b in early evening. Crayfish are most tive now through September, when w is warmest.

You can try your luck by setting ou line and hook baited with bacon o piece of liver; when you get a nib pull the line in slowly. But you'll f big, tubular wire traps are much m efficient—the funnel-shaped opening crayfish enter in pursuit of the bait prevents their escape. Tackle shops traps for about $20 apiece; or use a sm minnow trap ($7) and widen the open to 2 inches. An odoriferous piece chicken or liver, or a perforated can dogfood will do as bait; tie it in t center of the trap.

Until you're ready to cook your cat keep it alive in a cool, empty bucket co ered with a damp towel; crayfish w survive out of water for a day. Co them 10 minutes in boiling salted wat and eat like small lobsters (tail a claws hold most of the meat).

There's no limit on size or quantity, b anyone over 16 must have a fishing cense ($5.75) with an inland fisheri stamp ($2.25).

The Sacramento River Delta is load with crayfish—you can try anywhe along the lengthy American River Par way through Sacramento (it begins ne Sunrise Road north of Interstate 50 Closer to the Bay Area, a good Delt spot is Brannan Island State Recreatio Area off State 160 south of Rio Vist (open daylight hours).

Other spots to try: Lake Anza in Berke ley's Tilden Park and Lake Temesca near the junction of State 13 and 24 i Oakland. Both have daily parking fee ($1.25) and district fishing permit fee ($1.50). In Marin County, Samuel P Taylor State Park (day-use fee $1.50) or Sir Francis Drake Boulevard is also known to have crayfish.

Touring historic Utah

Whether you want to see the entire state or tour just a corner of Salt Lake City, two new booklets published by the Utah Heritage Foundation will help you out. Both are available by mail.

The first outlines 11 trips in various parts of the state, from the Pioneer Trail area to the Great Salt Lake Desert. Each tour includes a small map, trip length and time, and suggests best season to go. Main attractions along the way are highlighted, some with photographs. The 43-page paperback, called *A Guide to 11 Tours of Utah Historic Sites*, costs $1. A

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second book focuses on a district of Salt Lake City. Titled *Historic Buildings Along South Temple Street,* it covers one of the city's early enclaves of elegance, including the beautiful Romanesque Cathedral of the Madeleine, famous Temple Square, and now the new Symphony Hall. Cost is $2.

To order either booklet by mail, add 50 cents postage. Write to the Utah Heritage Foundation at 355 Quince St., Salt Lake City 84103.

Energy facts for homeowners

A new nonprofit center opens this month in the Golden Gate National Recreation Area (Marin side), offering information on alternative energy sources for homes and small businesses. The Golden Gate Energy Center will have lectures, workshops, and displays, kicking off with *Sunset's* Solar Homes of the West, a 12-panel exhibit showing some of the most inventive and practical methods at work in 60 or so homes.

The center is open free from July 3 through 5, then every Wednesday and Saturday, from 10 to 2; from U.S. Highway 101 take the Alexander Avenue exit and head west on Bunker Road to Building 1055 of Fort Cronkhite barracks.

Shooting the chute in Pleasanton

After some delay while its location was debated, a new water slide has opened

BILL RO

Steeply banked curves *at Pleasanton's new slide make for a wet ride*

in the East Bay Regional Park Distric The four-flume chute found a home i the Shadow Cliffs Regional Recreatio Area at 2500 Stanley Boulevard in Plea santon (from Interstate Highway 58 take the Santa Rita Road exit south, the turn left on Main Street to Stanley).

In the roasting summers here, a wate slide offers cool respite. You shoot dow a molded plastic chute on a spongy ma and a ribbon of water. A lifeguard su pervises; children under 42 inches tal must ride with an adult. Hours are 1 to 9 daily until Labor Day, then 3 to weekends. Cost is $2.50 per half-hour parking costs an additional $2.50 o weekends, $1.50 on weekdays. □

For travel planners, a July 1981 check list

New Inside Passage cruise. Alaskan fiords and glacial bays, many inaccessible by large ships, can now be explored aboard the small, 46-passenger *Glacier Queen.* An eight-day program between Ketchikan and Juneau costs $1,295 for daytime cruising, shipboard lunches, three dinners ashore, hotel accommodations, sightseeing in port and wilderness, and float plane trip to Glacier Bay. International Tour Management Service, 625 Market St., Suite 903, San Francisco 94105, (415) 957-9489, has details. In Los Angeles, call (213) 761-1115.

Tours for single parents and children. A brochure titled "Vacations to Share" lists 41 group tours for single parents who seek sports or adventure with their children. For example, spend 22 days walking Irish moors for $1,695; 10 days camping in Australia for $790; a week bicycling in north Florida for $295. Most tours have frequent departures; some have age limitations. Write to Offshore Travel, Inc., 820 Second Ave., New York 10017; (800) 221-4327.

Colombian treasures. Two-week tours to Colombia departing August 14, September 4, October 16, and November 20 focus on archeological treasures and sites. Itinerary includes trips by air or land to Tierradentro, San Augustin, and (optional at extra cost) the significant new find called La Ciudad Perdida. Cost: $1,890, including air fare from Los Angeles, lodging, most meals, all connections in Colombia. Write to Los Angeles County Museum of Natural History, Museum Alliance, 900 Exposition Blvd., Los Angeles 90007.

Rail Drive in Britain. This program provides one, two, or three weeks' unlimited train travel and four days' car rental (unlimited mileage) per week. Weekly cost for two is $142 to $270 per person, with choice of cars. Additional passengers pay only for BritRail Pass ($99 to $140; half-price for children). Pick up or return car at any of 73 rental offices at major train stations. Write to BritRail, 510 W. Sixth St., Los Angeles 90014.

Summer bicycling tours for teen-agers. Groups of 12 camp or hostel with a leader for two to six weeks in the United States, Canada, or Europe. For a brochure, write to The Biking Expedition, Box 547, Henniker, N.H. 03242. □

What a travel agent can do for you: Provide information on tours; help you plan a trip; reserve space on air, rail, bus, and ship lines; make hotel, ranch, and resort reservations. Travel agents usually do all this without charge, but they do charge for "custom" tour service.

Sunset School & Camp Directory

Travel Directory

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Index of Directories

School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

TRAVEL DIRECTORY
beginning page 9

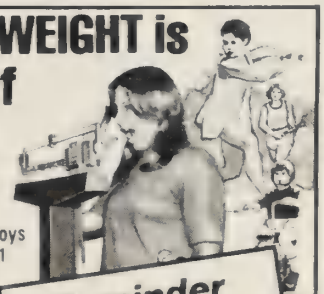
WESTERN GROCERY DIRECTORY
beginning page 131

GARDEN CENTER
beginning page 179

SHOPPING CENTER
beginning page 183

Camps

OVERWEIGHT is Out of Date



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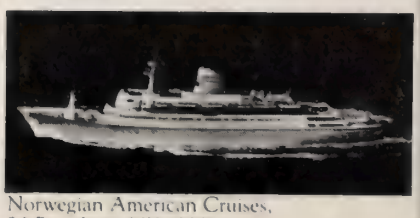

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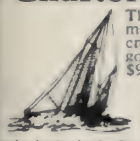

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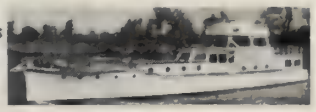

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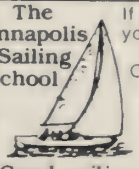

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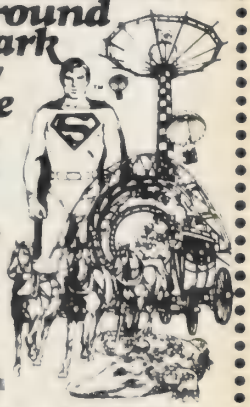

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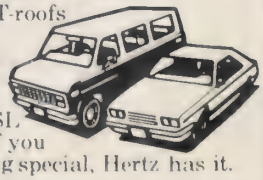

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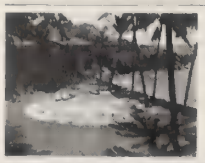

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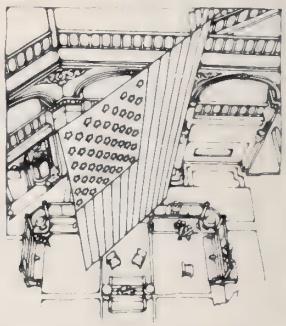

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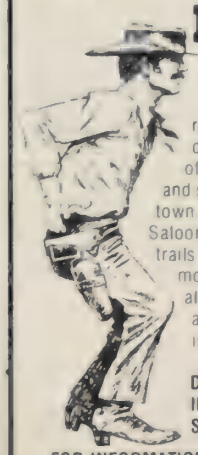

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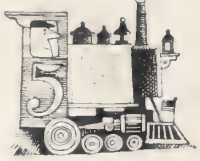

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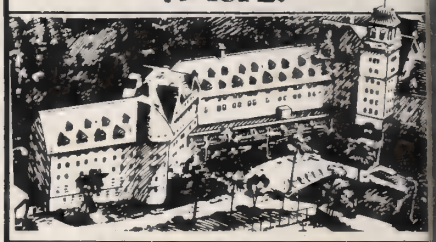

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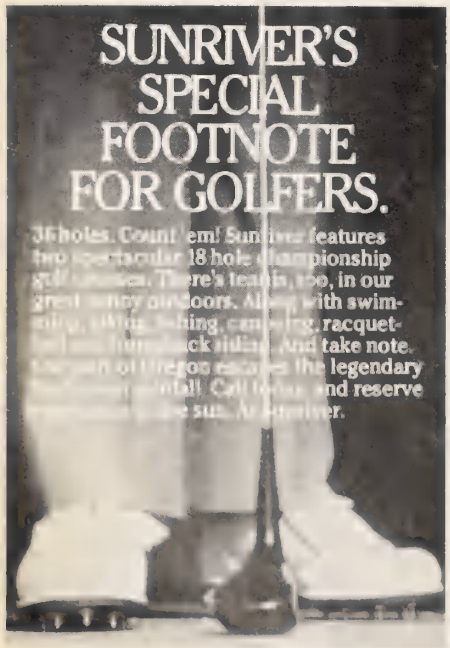

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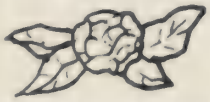

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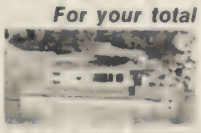

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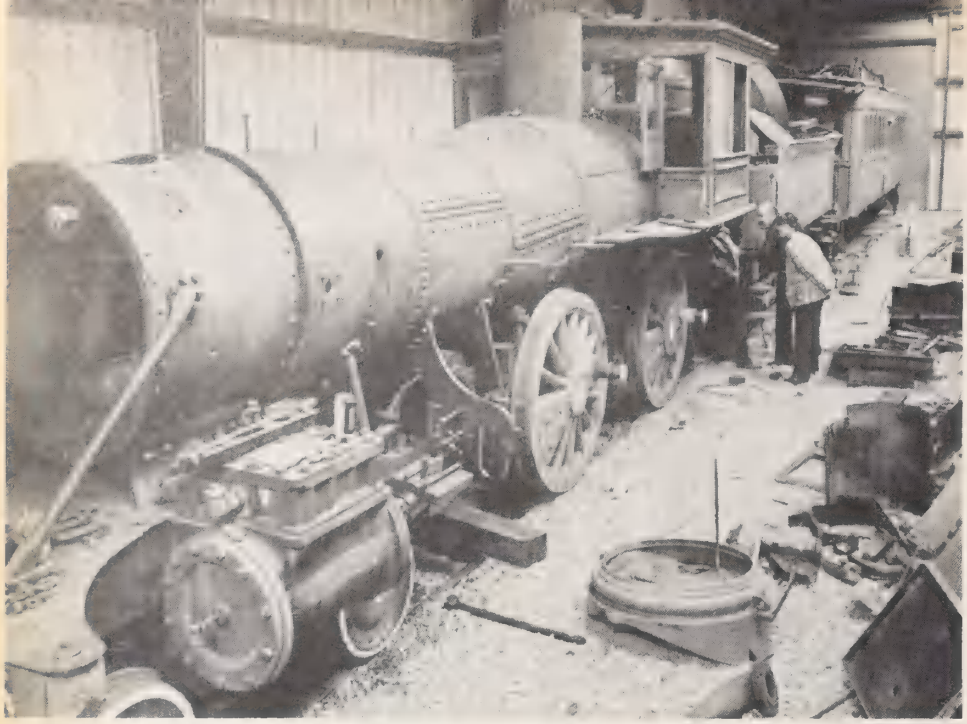


JERRY FREDRICK

Snowplow and Paramount Picture days *behind her, stripped-down Dayton, a 4-4-0, is rail museum's current restoration project*

Steam trains and venerable slots at two Carson City museums

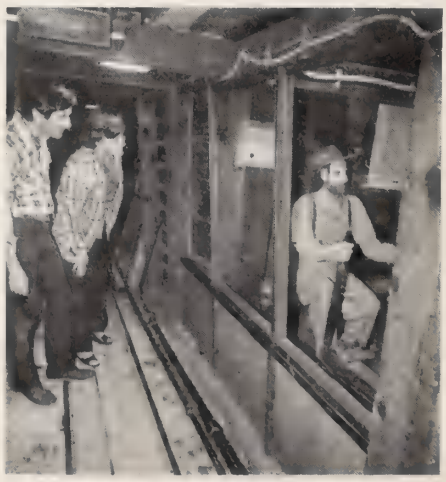
Wheels have been big movers in Nevada history. And this summer at two branches of the Nevada State Museum in Carson City, you can see how two quite different kinds of wheels helped propel state development: the steel wheels of a steam locomotive at a railroad museum, and the "wheels of fortune" in a special display of gaming paraphernalia. Navigating these two exhibit sites can occupy the better part of a morning.

Highballing days revisited

The Virginia & Truckee Railroad Museum is housed in a barn-like green steel shed on the west side of S. Carson Street (U.S. Highway 395) at Fairview Drive on the southern edge of town. Vintage railroad cars behind and alongside the building announce the location.

Opened last summer, the museum (part of the state system) owns 21 pieces of rolling stock from the historic standard-gauge Virginia & Truckee Railroad. There is a $750,000 grant to restore most of these cars, including four locomotives and an unusual gasoline-powered rail bus. The first project, a complete overhaul of a 1905 Baldwin-built 4-6-0 oil-fired steam engine (number 25), was completed last fall.

On major holiday weekends—July 4, Labor Day weekend, Nevada Day (October 31)—old number 25 will be fired up to roll up and down a hundred feet of track. Most weekends, local rail buffs volunteer to help guide visitors. The museum is open 8:30 to 4:30 Friday, Saturday, and Sunday from May 31 through November 1. Admission is free.



Mining exhibit *has walk-through shaft with displays like this booth where manikin operates an incline tunnel hoist*

Ornate *1900s' slot machine ate quarters; matching coin slot and wheel colors triggered payoff*

Gaming artifacts on view . . . along with mining tableaus

The Nevada State Museum is just a mile north of the railroad museum at 600 N. Carson Street (U.S. 395), in a fortress-like sandstone building that was once a U.S. mint. Now through March 17, 1982, the museum is showing an exhibit on Nevada gambling.

Although the exhibit includes artifacts of early games of chance, such as corncob dice used by Indians in southern Nevada 900 years ago, most of the displays show games and devices used from 1869 to 1910, when a reform movement pushed through legislation making gambling illegal in Nevada—a law that was soon widely ignored.

One of the most popular pastimes then was faro, and a quick look at the 1870 faro table helps explain why this rather complex game is no longer played. Modern victims of the one-armed bandit will be fascinated by the 10 antique slot machines, including one of the early Liberty Bell machines. The wooden keno goose of the 1880s was used in a game that resembled bingo more than modern keno. The big chuck-a-luck wheel replaced dice, which in those days were all too often subject to tampering.

Take a look at the 1850 riverboat gambler's kit, complete with cards, dice, mother-of-pearl chips and markers, and pocket-size derringer. All this was stored in an inlaid wooden box along with a small portrait of the kit's one-time owner, the mustachioed and slightly shifty-eyed Alexander E. Bonnett.

Also on display is a permanent exhibit on underground mining. The free museum is open daily from 8:30 to 4:30.

For details on activities at either museum, write to the Nevada State Museum, Capitol Complex, Carson City, Nev. 89710. Carson City is a good 45-minute drive from either Reno or South Lake Tahoe. □

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JOSEPHINE COATSWORTH

X marks *the course to be found and followed by jogging group. Organizing "hare" is using flour*

BILL ROSS

Faster *cross-country runners are trail finders; their search for markers allows back of pack chance to catch up*

"Hash house harriers"... joggers' version of hounds and hare

The thrill of the chase is what makes jog ging fun for these runners. Like hound after the hare, they dash over hill an dale (and asphalt), searching for prese trail markers.

They're members of California group calling themselves "hash house harriers (affiliated with a running group starte in Malaysia in the late 1930s that con cluded its jaunts at a hash house). Thes joggers get together for weekly rallies— an idea you may want to try with friends

Before the run, the organizer or "hare lays out a 5- or 6-mile loop course alon streets or park paths, or a cross-countr route, marking trail arrows or crosses i flour or powdered chalk. At intervals, h leaves gaps or "checks" in the trail t baffle runners and slow down the faste ones while they search for the nex marker. The runner who picks up the trail calls out "On, on" and the other follow.

At the end of the run, the organizer provides refreshments for the tired harriers. Group members trade off organizing chores; everyone contributes to the cost of refreshments—sometimes involving barbecues or picnics.

To learn more about setting up such a group, send a stamped, self-addressed envelope to Hash House Harriers, 580 N. Cahuenga Blvd., Los Angeles 90004. □

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HOTEL INTER•CONTINENTAL
MAUI On the beach at Wailea
Maui, Hawaii

THE SCIROCCO THAT WON JOHNNY RUTHERFORD.

Johnny Rutherford makes his living by driving over 200 miles an hour in a Chaparral that costs a quarter of a million dollars. He's won more races than you can shake a checkered flag at, including three firsts in the Indy 500.

Out of all the high performance cars there are in this world, the sports car he chose was the Volkswagen Scirocco. How come, J.R.?

"Because the Scirocco's overhead cam engine and front-wheel drive, along with excellent aerodynamics give it speed, performance, and believe it or not ... terrific fuel economy." (EPA estimated 25 mpg, 40 mpg highway estimate. Use "estimated mpg" for comparison. Mpg varies with speed, trip length, weather. Actual highway mpg will probably be less.)

"Whoever engineered this car did one heck of a job putting the power, handling, steering, comfort and braking all in just the right balance.

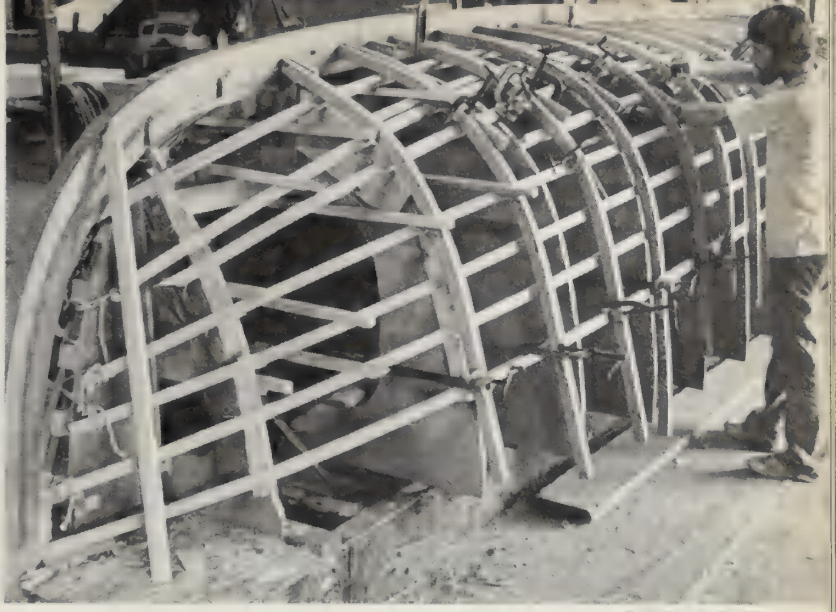
"Sure there are more powerful sports cars around but who needs them on the highway or in downtown Indianapolis. My Scirocco is plenty of car for me. All in all, it's a winner. And that's important.

"Because nobody ever remembers who finished second."

J.R., we couldn't have said it better ourselves.

VOLKSWAGEN DOES IT AGAIN

dent replaces ribs *on a vintage canoe*



Clamping frame *gives shape to 20-foot surf rowboat at Bay Area Marine Institute*

DARROW M. WATT

The fine art of boatbuilding... on Pier 66 in San Francisco

Armchair mariners and would-be shipwrights can learn more about boatbuilding at San Francisco's Bay Area Marine Institute. Occupying an old boatyard south of the Bay Bridge on Pier 66, the two-year-old school is reviving a once-derelict area of the port.

Usually the workshop handles about eight boats at a time. Depending on what projects are underway, you may see students mastering steam bending, fiberglass molding, or engine repair.

For those who want to improve their nautical skills, the institute offers evening and weekend classes in boatbuilding, sailing, celestial navigation, marine electricity, gas and diesel mechanics, piloting, and yacht-racing rules. Courses cost $40 to $160 and usually meet once a week for up to eight weeks.

Though there are no official guides, the institute welcomes visitors. Hours are 9 to 5 daily except Sunday. Call (415) 552-4500 to find out what's on deck. □

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JERRY FREDRICK

ORANGE COUNTY. *Bearded botanist at Caspers Regional Park instructs future volunteer naturalists on the dangers and uses of prickly pear cactus. The volunteers are trained informally (and in eight-week sessions) to lead hikes, assist rangers, develop guides and brochures, and operate a new nature center*

GREGG MANCUSO

SAN MATEO. *Boy Scouts pitch in during cleanup of Marina Lagoon area. Because of budget cutbacks, periodic litter campaigns are required to keep the city and county clean. "But you can do it anytime on your own," urges Albert Bergeron, San Mateo city maintenance superintendent. "You don't have to wait for a special program"*

COMMUNITY ACTION:

California parks need *you*. These volunteers show how to pitch in

AN DIEGO. *Backstage at the Casa del Prado Theater, volunteers put the nishing touches on costumes for Junior Theater performances. Offering to help with drama productions may involve you in anything from sewing to set construction*

BERKELEY. *Scott holds reluctant rabbit as ranger Tony Bartoni clips its toenails at East Bay Regional Parks' Little Farm in Tilden Park. Maryann, a 13-year-old donkey, looks on. Scott and others from age 12 up help out weekend mornings by sweeping pens and feeding and grooming the animals*

KEN ARNONI

SAN DIEGO. *Artists in many fields donate time and studios for San Diego City's art scholarship program. Here, painter Jorge Imana advises a beginning portraitist. Through the one-on-one program, artists learn teaching skills and meet art enthusiasts—who may become paying students at end of their five-session seminars*

EL TORO. *Restoration of the El Toro Schoolhouse (1889) was completed largely by Saddleback Area Historical Society volunteers working with Orange County park officials. The site includes three other buildings: 1891 Episcopal mission, 1856 adobe, and 1909 ranch house converted to a museum. Volunteer docents lead tours, help run the museum*

SYLMAR. *Coach (and father) gives last-minute instructions to his eager Miss Softball America team at El Cariso Regional Park in Los Angeles County. Before game, parents rake infield and chalk up foul lines; in general they organize and operate the league*

"If we didn't have them," says a county parks administrator, "we wouldn't have much of anything." Since the passage of Proposition 13 in 1978, volunteers have successfully started or continued many programs at city and county parks throughout California. Here, we illustrate several triumphs—examples of what can be done as the trend in budget tightening spreads.

If you'd like to participate, telephone your nearest parks department office; workers there can put you in touch with active organizations that welcome help. It might take several calls before you find a role to match your background and interests, since most offices have no coordinated plan for handling volunteer requests.

Another approach is to telephone your local volunteer bureau (sometimes called volunteer action center). In 59 cities throughout the state, these nongovernmental agencies have information on all types of volunteer activities, including those at city and county parks.

For those who have the time, the range of opportunities is broad, their number limitless, the sense of satisfaction great. □

Rocky enclosure *of Oregon's most famous lake was etched with snow on our visit in early summer. A short walk from the summit of Llao Rock led to this craggy promontory. Distant peak on the horizon is Mount McLoughlin, 35 miles away*

Rock-top climb for grand crater views

Thrusting forward like a dreadnought, Llao Rock seems in command of all of Crater Lake: the intensely blue waters, the rugged shoreline and surrounding promontories, the rim road, the park lodge. From on top, the view reaches to Mount Shasta in California and to spired Mount Thielsen, Diamond Peak, and the Three Sisters in Oregon.

No clearly defined trail climbs the rock, yet getting to the top is surprisingly easy.

Circling the lake is the 33-mile Rim Drive, usually open late June to the first heavy snow. (To confirm that it's open, call 503/594-2211.) About 6 miles north of the shops and lodge at Rim Village, it joins the road to Diamond Lake. Park in the lot at this junction, walk toward the lake, and head up the partly treed slopes to your left.

The lake surface is at 6,176 feet; your hike starts at 7,253 feet; the highest point on Llao Rock is at 8,046 feet. This means a vertical gain of less than 800 feet in the ¾-mile walk. But you may get winded easily at this elevation; take your time.

As the crest comes into sight, don't be lured into venturing onto the lake-facing scree slopes, despite apparent traces of old trails across them: these slopes are unstable and extremely hazardous.

At the top, you can settle down beneath gnarled pines to enjoy the view.

The lake in front of you began life when an awesome volcano, now known as Mount Mazama, collapsed into itself some 6,600 years ago. The remnant crater (properly called a caldera) filled with snowmelt. Now the resulting lake is one of the natural wonders of the world: water of cerulean blue and exceptional clarity, up to 1,932 feet deep (second deepest lake in the Western Hemisphere), with no feeder streams and no outflow.

Llao Rock itself—it was named by Makalak Indians for the chief spirit of the underworld—is an immense single plug of dacite extruded from Mount Mazama. If you like, wander out a narrow ridge to reach the jagged edge of the rock's precipitous south face. Look down. You will never think of blue in quite the same way again.

For a free map-folder on the attractions at Crater Lake National Park, write to National Park Service, Crater Lake, Ore. 97604. For information on hotel rooms and sleeping cottages, write to Crater Lake Lodge, same address. □

Bold, precipitous *Llao Rock rises across the lake from hiker who has slung his trail hammock just outside the lodge*

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SANTA MONICA EVENING OUTLOO

Racers take off *at the sound of a gun for a ¼-mile swim in the briny*

They call it "rough-water swimming" ...you can watch or join 10 events this summer

HARALD JOHNSO

Stroking *through glassy bay water, swimmer starts his day*

As a challenging race or a quiet daily dip, rough-water swimming is attracting more than heroic masochists. Anyone who has done laps in a pool can appreciate the appeal of open water; it's invigorating, unconfined, and just plain fun.

Flashy style isn't important—any basic stroke will do—but endurance and common sense are. If you want to start rough-water workouts or prepare for competitive swims, do it gradually.

Always swim with an experienced friend in a designated swimming area, wear a brightly colored cap for safety and warmth, and stay close to shore unless a boat accompanies you. Don't underestimate the dangers of open water, its currents, tides, creatures, and boat traffic. And don't overestimate your physical condition and ability to tolerate cold.

To compete in rough-water events, you don't have to be very fast, but you should be able to maintain your pace easily for the length of the course. You may end up swimming farther than you anticipated: currents can push you off course, and there are no black lines on the bottom to guide you. If the surface is choppy, you'll work even harder.

Organized swims: jump in or look on

This summer, coastal and inland open waters of northern California will see 10 organized swims. Events listed here are open to all comers. Most charge an entry fee (usually about $5) and require advance registration. For details and entry forms, call the organizer.

The organizer can also recommend the best viewing spot for spectators. You'll see swimmers of all ages and speeds fight it out, and some brave and exhilarated ones in it just for fun. And as with all slightly eccentric sports, rough-water competition generates camaraderie, infectious enthusiasm, and an element of zaniness.

July 18. Aquatic Park Cove, San Francisco Bay; 1-mile swim. Telephone Dick Frenzel at (415) 873-1660.

July 25. Olympic Club Trans Tahoe Swim; 13-mile relay. Call Bill Barthold at (415) 388-4565 or 892-9281.

August 8. Santa Cruz Wharf; 1-mile swim. Call Al Mitchell at (408) 423-3149 or (408) 429-3747.

August 9. Santa Cruz; 1½-mile run, ½-mile swim, 1¼-mile run. Write to Santa Cruz Surf Life Saving Assn., 346 Church St., Santa Cruz, Calif. 95060.

August 16. Redwood City, Redwood Shore Biathlon; 4-mile run and 400-meter swim. Call (415) 592-4170.

August 22. Donner Lake; 2.7-mile swim. Call Sally Peterson at (916) 587-7649.

September 13. Capitola Beach Festival; ¾-mile swim and other events. Call Pat Gilbert at (408) 475-1403.

September 26. San Francisco Trans Bay Swim; 10½-mile relay. Call Enid Spilka or Rich Haffey at (415) 877-8560.

October 4. Tiburon; 2-mile run, 3½-mile bicycle, ½-mile swim. Call Bill Smith at (415) 435-3909 or Don Pickett at (415) 435-1117.

October 10. Stonegate Lake, Davis; 6.2-mile run, 19.2-mile bicycle, 1.5-mile swim. Call Verne Scott at (916) 753-2828.

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DARROW M. WATT

Volleyball *gets squeezed into basket as rider signs up for shuttle bike to cycle on over to the beach at Capitola*

Beating traffic to Capitola beach... with a new free bike shuttle

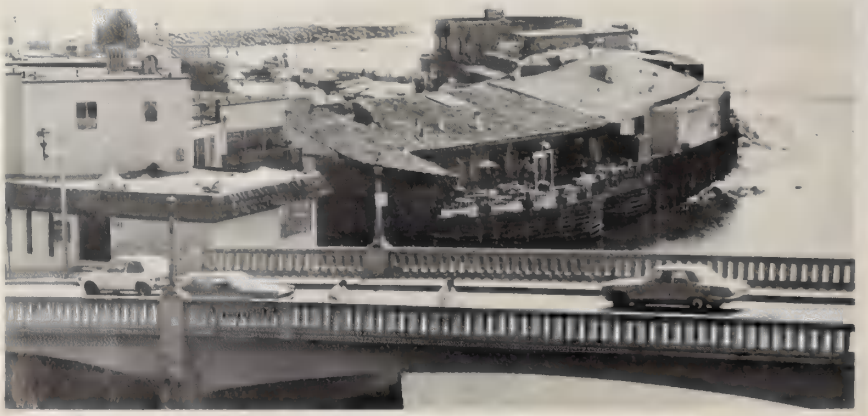
Getting to the beach has always been a challenge for weekend visitors in the Santa Cruz area, but especially so in Capitola, where narrow streets and limited parking slow beach-bound traffic to a hot crawl on many days.

Over the past few years, county transit efforts to alleviate the problem with a free beach shuttle have met with some success, and this year there's another fresh experiment—free bicycles. Abandoned bicycles supplied by local police departments have been rehabilitated and painted white, and they're yours for the riding from the shuttle parking area.

To get to the lot, take the Capitola exit from State Highway 1 onto Bay Avenue, head one block west to Hill Street, turn left, and follow signs. Bikes all have loc and some have baskets, but be prepar to carry gear in your own day pack f the easy mile ride to the beach.

The bike shuttle program started Ju 13 and runs through Labor Day. The or so bikes (a mixed group of 3- and 1 speeds, with a few for children) a available daily from 10 to 8. You w need to leave a blank check or cred card and your car keys as a deposit. you arrive too late to get a bike (they' given out on a first-come basis), you c take one of the shuttle buses schedul every 10 minutes daily from 10 to 8.

Motorists who bring their own bikes c park cars in the shuttle lot and cycle the beach.



Bikers ride *a gentle downhill mile from shuttle lot to beach and shops*

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JOHN BAUGUF

Bold silhouette *of fountain in Eugene's downtown mall will backdrop July performances of Oregon Repertory Theatre*

Musical nights in Eugene

The imposing angular fountain in the middle of Eugene's downtown pedestrian mall will be splashed—not with water—but with song on many nights this month. At 8:30 each evening except Monday, players of the Oregon Repertory Theatre (ORT) will take their places on the fountain-stage to perform Rogers and Hammerstein's musical *Carousel.*

This play will run July 1 through 31 as a special supplement to ORT's regular winter season; it's aimed at providing family entertainment during normally balmy summer nights in Eugene.

General admission tickets ($4 per person) are available at the box office of ORT's theater in the Atrium shopping complex at 99 W. 10th Avenue. It's often possible to pick up tickets at showtime. Out-of-towners can order tickets by mail; send a check with requested performance date to ORT, 99 W. 10th Ave., Eugene 97401. For further show information, call (503) 485-1946.

Closest public bus stop is at 10th Avenue and Willamette Street; the fountain is 2 blocks north on the mall. If you drive, there's plenty of parking nearby. □

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Starting point *for covered wagon trips is Waalre, about 80 miles from Amsterdam*

A horse-drawn vehicle is *milieuvriendelijk,* friendly to the environment. It also saves energy and permits leisurely travel in areas of natural beauty often inaccessible by car.

With this in mind, the Dutch tourist association of Kempenland, south of Eindhoven, has designed covered wagon trips lasting three to eight days, with nights spent in hotels. The longer trips also go into Belgium.

The wagon is equipped with a driver's seat in front and fixed benches inside, as well as a folding table and chairs to set up inside or at a picnic site. You're also provided with a basket containing a thermos and picnic supplies, and buckets with feed and water for the pony.

If you have never taken care of a horse or harnessed one to a wagon, don't worry: instructions are sent to you before you leave home ("Don't give the pony cold water when he's hot," "Do not let him stand in the sun"). A diagram shows what part of the harness goes where. Then, when you pick up your wagon and Welsh or Fjord pony in Waalre at the van Och farm, a member of the family gives you a trial run in harnessing.

The pony will be walking most of the time, and members of the group can also walk part of the average daily distance of 20 kilometers (12 miles). Routes are carefully laid out—and described in detail in the tour documents—through attractive scenery on pastoral roads.

Nights are spent in family-run country hotels with a washbasin in the room; the bathroom may be down the hall. Three-course dinners often include local specialties. At the Hotel Koeckhofs in Achel (shown in the photograph at right) we enjoyed the "wagoneers' menu" of beef soup made with Belgian Trappist beer and raisins, rabbit, and *riezepap,* a rice pudding. Hotels also provide copious breakfasts and bag lunches with hot tea

Why should I look at the back of my pictures?

©Eastman Kodak Company

Cozy hotel *in Achel, Belgium, provides dinner and beds; pony will be pastured in rear*

In quiet *park, young François reins while sister Arian consults route instructions*

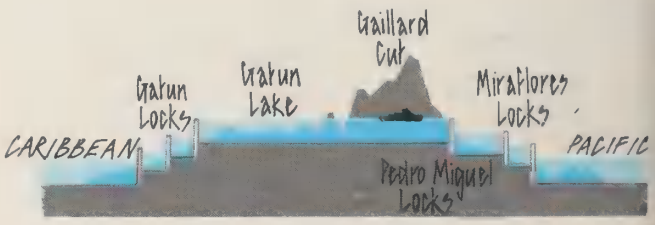
coffee for your thermos. For a daytime eat along the way, stop at one of the afés that offer fluffy Belgian waffles eaped with whipped cream.

ours are offered from April through ctober; cost is $35 to $45 per person er day with substantial discounts for e third, fourth, and fifth adults in a agon and children 2 to 12.

or more details, write to the Netherands National Tourist Office, 681 Market St., San Francisco 94105. □

Steel gates *close behind a departing ship, as another ship with two accompanying tugs waits to enter chamber*

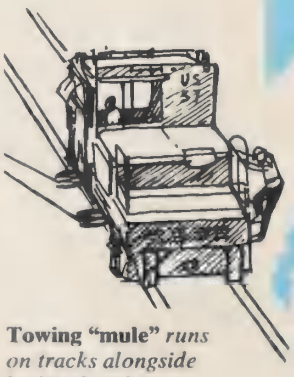
Canal watching . . . for many, it's the reason for a Pacific-Caribbean cruise



Locks raise *each ship 85 feet to level of Gatun Lake, then lower it back to sea level on opposite side.*

It took 34 years of grueling labor, repeated setbacks, and engineering triumphs before the dream of centuries was realized. A $387-million project, it was the biggest and costliest undertaking of its time. It cut 8,000 miles off the voyage from North Pacific to Atlantic, and it fortified the global power of the United States just as World War I began.

For today's cruise ship passenger, the "Big Ditch" is a highlight of the voyage from the Pacific to the Caribbean. Ten cruise lines offer transcanal voyages originating from West Coast ports: Acapulco, Los Angeles, San Francisco, Vancouver. Most of these trips last 10 to 21 days and



Towing "mule" *runs on tracks alongside lock's chambers. Lines attach to ship to guide it through*

Stretching *50 miles from Pacific to Atlantic, the canal splits the Western Hemisphere in two. To transit it eastbound, you first angle back to the northwest, then steam north past Cristóbal*

AT LAST, AN IRRATIONAL REASON TO BUY A VOLVO.

Over the years, Volvo has come to be known as one of the most sensible cars you can own.

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Its striking appearance is the first hint that the GLT is quite unlike its predecessors. But the proof's behind the small-diameter GT wheel.

The GLT is available with a fuel-injected, overhead-cam, turbo-charged engine that can propel the car from 0-60 in 9.6 seconds.

And its handling offers a feature even harder to find: predictability. The GLT is designed to react the same in panic situations as it does in normal driving. So it not only presents the driver with no surprises, it can actually improve his performance.

Every GLT also comes fully-equipped with Volvo's more traditional virtues. Like an interior capable of comfortably accommodating five full-size adults. Orthopedically contoured seats. And the superb engineering that's responsible for Volvo's famed life-expectancy: in Sweden, by latest count, an average 18.7 years.

Before you purchase a performance car, test-drive the new Volvo GLT.

The pure exhilaration you'll feel may have little to do with logic. But if your heart insists on a GLT, relax.

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terminate in Puerto Rico or Florida.

It takes just a day to make the 50-mile voyage from ocean to ocean. Although the locks operate round-the-clock, cruise ships routinely schedule crossings for daylight hours so you get a good look at the canal. A guide usually comes aboard to explain the crossing in detail, and shipboard movies may cover the canal's history.

As you enter from the Pacific, a long sea-level channel brings you to Pedro Miguel and Miraflores locks. These massive, complex chambers, up to 81 feet high and 1,000 feet long, work so smoothly that passengers invariably wonder at the absence of noise and bustle. The 7-foot-thick steel gates seem to open and close effortlessly. Alongside each chamber, small towing locomotives called "mules" gently pull each ship through the water at a languid pace of about 2 miles per hour.

Crossing the divide

Shortly you come to Gaillard Cut, an 8-mile-long manmade channel that straddles the Continental Divide. Cutting the saddle here, which rose 312 feet above sea level, was the biggest challenge the engineers faced. Repeatedly impeded by avalanches, excavation took seven years and countless lives. Even today, frequent dredging is necessary to combat the buildup of silt and mud from slides.

Slippage is aggravated by the abundant rainfall (as much as 150 inches a year), but without the tropical downpours, the locks couldn't operate. For each transit, they use 52 million gallons of fresh water. Much of it is stored in Gatun Lake, the second largest manmade reservoir in the world, then carried down through the locks by gravity flow.

As you cross Gatun Lake, you get a sense of how much traffic goes through the canal. Dozens of tankers, cargo ships, and passenger liners usually dot the water. On average, about 40 ships make the crossing each day—paying up to $68,000 for the privilege, depending on tonnage. (The fees for a cruise ship range upward from $27,000.)

The final locks as you exit Gatun Lake drop you in three steps to the level of the Caribbean Sea.

Making plans

To guarantee a choice of accommodations and sailing times, you'll need to book six months to a year ahead. Peak season is winter, with the mildest weather and the highest fares. Spring and fall bring more rain and lower rates. A travel agent can provide brochures and help you with your planning.

Before you go, be sure to read *Path Between the Seas*, by David McCullough (Simon & Schuster, New York, 1978; $6.95 paperback). □

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SUSAN BIDDLE

Above Booth Falls *near Vail, Colorado, day hiker takes a snapshot at 10,000 feet*

Vail trails starting at 8,500 feet

The ski town of Vail, 87 miles west of Denver, becomes something of a hiker's mecca in summertime. That makes it a challenge to find unpeopled paths. Here are three lightly used trails into White River National Forest just across the valley from Vail.

All three are about 3½ miles long and take off from old Highway 6 (Frontage Road) just north of Interstate 70; each begins at about 8,500 feet and climbs steeply—take it slow.

Booth Creek Trail. You climb through aspen and willow to rushing Booth Falls and end at tiny Booth Lake at about 11,600 feet. Take Frontage Road east from Vail to Booth Falls Road; the trailhead is at road's end.

Pitkin Creek Trail. This route parallels the creek, passing two small waterfalls on the climb to 11,400-foot Pitkin Lake. Head east from town on Frontage Road and park near the Pitkin condominium development.

Bighorn Creek Trail. You may see bighorn sheep here on quiet mornings. You'll meander along the creek and through stands of aspen, ending in a small meadow at 10,800 feet. The trailhead is about 3 miles east of Vail off Frontage Road; follow signs. □

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In times long ago, the ancient Hawaiians indulged themselves in a four-month long festival called Makahiki. It was a time to forget the rigors of everyday life and pursue sports and renewal of the spirit.

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Our superb golf course is destined to be the talk of the golf world. It meanders along prehistoric lava outcroppings of the Big Island of Hawaii's Kohala Coast and the blue Pacific Ocean. In fact, the sixth tee sits above a water-churning cove with the green some 180 yards across a chasm of boiling ocean. The beauty of the course merges with the vista of five volcanic mountains—Mauna Loa, Mauna Kea, Hualalai, Kohala and Haleakala across the channel on Maui. It is, simply, a celebration to the game of golf.

Then there is more tranquil exercise. Shoreline trails just for fun. And King's Trail for both fun and a sense of historical separation from the present.

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For further information regarding Mauna Lani Resort please write Mauna Lani Resort Inc., Pacific Trade Center, Suite 1878, 190 South King Street, Honolulu, Hawaii 96813.

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When a foreign traveler needs emergency care

It's uncomfortable being sick at home, but it's downright miserable being sick when you're traveling. And becoming seriously ill or injured abroad can create a life-threatening situation if adequate aid is not at hand. It's worthwhile, then, to be aware of what emergency measures are available and to review the health-related side of your trip before you go.

Information resources

Before leaving home, check your medical insurance policies to see whether they include worldwide hospital, medical, or life coverage. But even if they do, foreign hospitals may want cash. Some insurance companies such as Blue Cross of Northern California offer a travel kit with claim forms—you pay the bill and are reimbursed later at home. Ask about your carrier's procedure.

If you have a serious allergy, diabetes, or any other medical problem, you might want to join *Medic Alert* (Box 1009, Turlock, Calif. 95381). It provides engraved bracelets or necklaces that identify these ailments in case of emergency and supplies wallet cards with updated medical information. The bracelet, necklace, and card carry the emergency telephone number of Medic Alert's central file. The file contains further medical information pertinent in an emergency. Life membership is $15.

Other organizations are set up to give you medical information and get you in touch with English-speaking physicians abroad. *IAMAT* (350 Fifth Ave., Suite 5620, New York 10001) offers material —by written request—on inoculations, climate, and sanitary conditions and gives you access to English-speaking member physicians whose fees have been set. There is no fee for this information, but a donation is requested. Allow five weeks for receiving the information.

Intermedic (777 Third Ave., New York 10017) offers similar services. Intermedic also provides you with a personal medical data form to be completed by your personal physician, then used when you visit a doctor overseas. Individual membership is $6 per year; family membership is $10.

If you've left home without such previous assistance and become ill abroad, the U.S. State Department's Citizen's

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Holland America Cruises

Emergency Center offers help to American citizens. Check the nearest embassy or consulate. The office will help find an English-speaking physician, notify your family, and, if medical care is not adequate, assist in making arrangements for your return.

Transportation help in emergencies

Should you become very seriously ill, you could find medical evacuation crucial—and very costly. But certain membership organizations can help here, too.

If you plan an exotic expedition, have a medical condition requiring special treatment, or travel frequently, you may find it advisable to join a membership organization: the cost of emergency transport is sobering. Air ambulance service from New York to San Francisco could run as high as $9,000; from Europe to the U.S., it could be $25,000 to $50,000. And if you return home by commercial airlines but need to use a stretcher, your passage will be, in most cases, four times the cost of a one-way, first-class ticket.

The following membership organizations offer you a variety of services, including medical evacuation if required:

Assist-Card (745 Fifth Ave., New York 10022) offers members medical care and hospitalization in 56 countries. Emergency transportation to the nearest medical facility is also included. Accident victims receive up to $10,000 in medical coverage, and other benefits include legal fees and cash advances of up to $1,000. The fee for membership is based on length of time to be covered: a 5-day membership costs $20, a 90-day membership $120.

International SOS Assistance (Philadelphia Executive Offices, Two Neshaminy Interplex, Trevose, Pa. 19047) offers a $12.50 membership for a seven-day period which can be extended. SOS provides referrals to a multilingual network of physicians throughout the world and can, if necessary transport you home. If you are traveling alone and hospitalized for more than seven days, economy round-trip transportation is provided for a designated person to visit you.

Health Care Abroad, Division of International Underwriters/Brokers, Inc., (1029 Investment Building, 1511 K St. N.W., Washington, D.C. 20008) offers a policy providing emergency transportation and basic medical, accident, and sickness benefits. Cost is $1 a day, with a minimum $25 premium.

NEAR—Nationwide/Worldwide Emergency Ambulance Return (1900 N. MacArthur Blvd., Suite 210, Oklahoma City, Okla. 73127) provides emergency air/ground transportation to the member's home from anywhere in the world in case of illness, injury, or death. Individual membership is $62 per year; family membership is $86. ▫

*1979 independent mail survey of 37,495 Airline Passengers Association members with 11,931 responding.

In fine porcelain . . . decorated with a border of pure 24kt gold

The Woodland Year

by Peter Barrett

Fawns in the June Meadow

© 1981 FP

Plates shown smaller than actual size of 9⅛" diamet

The changing seasons . . . and the delightful creatures of the forests. Portrayed in a collection of twelve charming collector's plates . . . one for each month of the woodland year.

Limited Signature Edition. Advance Subscription Deadline: August 31, 1981

he beauty and grace of a young deer frolicking in the summer meadow . . . the delight of a baby raccoon being startled by a tiny green frog . . . the of two chipmunks sharing their food little bird . . . such scenes from na- ve a very special fascination for us be able to capture these qualities in form is a unique gift – and the re- d English painter Peter Barrett has re gift in abundance.

use Barrett is a trained naturalist as an artist, he is able to portray in his not only the personality of nature's aptivating creatures – but also their tive features in realistic detail.

distinguished wildlife artist will now ake a uniquely challenging assign- He will create a series of new works *exclusively* for a collection of twelve ain plates – plates that will depict and animals at play throughout the months of the year.

h of these works by Peter Barrett will eated for "The Woodland Year" ain plate collection, to be issued by lin Porcelain. And the first edition of ollection will be a special, limited ature Edition."

plate portrays a different animal . . . ing a different month of the year

pture the beauty of these woodland

The Friendly Chipmunks in August

es, Peter Barrett will depict each ani- in a different natural setting . . . and g a different month of the year. And

Squirreling for Nuts in January

each delightful animal – the raccoon for April, the deer for June, the badger for October – symbolizes especially well that particular time of the year.

The January plate, for example, portrays two Grey Squirrels digging up acorns on a snowy winter's day. The May plate depicts a baby fox startled by the sudden appearance of a butterfly in the tall grass. The November plate shows an American Marten perched in a pine branch – a moment after he has mischievously disturbed a Red-Breasted Crossbill . . .

Every one of the twelve plates that make up the collection has a charm about it that is irresistible. Because no detail, no matter how small or subtle, escapes the eye of Peter Barrett.

A unique way to depict nature's most delightful creatures

Consummate artist that he is, Peter Barrett is always seeking ways to make his art different and original. And here he has found a most ingenious one. He has portrayed each scene as though it were being viewed secretly, without the animals knowing you were there. Thus, as you look at the plate, you have the illusion of having peered through an opening in the forest – and suddenly come upon this delightful scene! It's a technique which Barrett uses in the most winning manner . . . and each of the twelve works of art, therefore, becomes a new and pleasant surprise.

In order to capture the art of Peter Barrett in the most appealing manner, each plate will measure 9⅛ inches in diameter. Moreover, each of these lovely woodland plates will be decorated with a border of *pure 24 karat gold*. Franklin Porcelain has entrusted the creation of the plates for this distinguished collection to its affiliate, Franklin Porcelain of Japan.

Signature Edition available for a limited time

The Signature Edition of "The Woodland Year" by Peter Barrett will be distinctive because it is the *only* edition of this collection that will bear the signature of the artist on each plate.

In the tradition of fine porcelain, the plates in this desirable Signature Edition will be issued *only* during a single year – and will never be made available again. Thus, the total number of sets to be issued in the Signature Edition will be forever limited to the exact number of original subscriptions entered by the end of 1981, plus one set for the artist and one for the archives of Franklin Porcelain.

The collection of twelve plates will be sent to subscribers at the rate of one every *other* month, and the issue price for each plate is just $55, payable in two convenient

The Butterfly Chase in May

monthly installments of $27.50 each. This price is *guaranteed* to subscribers for each of the twelve plates in the collection, regardless of any rise in costs during the entire subscription period.

To enter your subscription for the Signature Edition of "The Woodland Year" – and begin to build one of the most beautiful collections in fine porcelain – mail your application to Franklin Porcelain, Franklin Center, Pa. 19091, by August 31, 1981.

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EPA PASSENGER COMPARTMENT VOLUME	89 CU. FT.	90 CU. FT.	82 CU. FT.	89 CU. FT.	89 CU. FT.
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If you've been thinking about buying an import, it's time to re-think your decision. It's time for Cimarron.

Due to limited initial production, Cimarron is not available at all Cadillac dealers at this time.

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Floating fly fisherman *steadies rainbow trout before release*

Fisherman's art: letting them go

Release your catch? Many anglers have enough trouble hooking fish. Indeed, while the literature of angling is well stocked with advice on how to catch fish, it barely pays lip service to the subject of releasing them.

Yet when fishing many Western waters, how you release your catch is as important as how you hook it. On these waters, catch-and-release regulations have been implemented to conserve a limited natural resource—trout—for the enjoyment of increasing numbers of sportfishermen.

Knowing the proper ways to release fish unharmed can help ensure a healthy supply for the future. But releasing fish isn't just a matter of conservation, it's often a legal obligation as well. Some catch-and-release areas allow "no-kill" fishing only; others limit the size and number of fish you may keep. Most state fishing regulations require the return of certain species that don't measure up to keeping size or that have been accidentally foul-hooked.

We consulted fishery biologists, trout conservationists, and veteran anglers on

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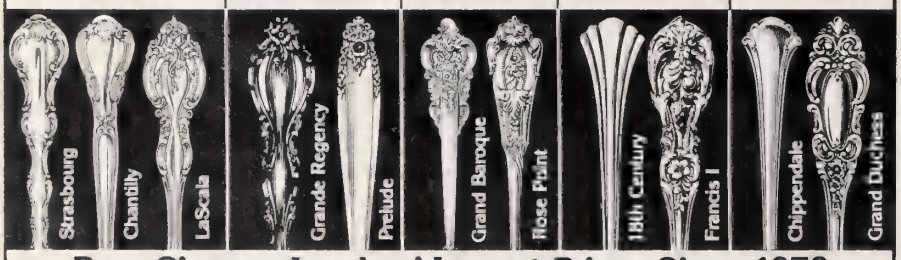

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You can crimp *the barb of a regular*

release methods. Though their recommendations are aimed at trout, most of the techniques described here can be used for salmon and other fish. These experts believe that tackle choice and the length of time a fish is played also have critical impact on a successful release.

Tackle considerations

Bait vs. artificial lures. Statistics compiled by biologists show a substantially higher hooking mortality rate for fish captured on baited hooks (over half die in some studies). But for fish caught with artificial lures (including flies), death rates for released fish dropped to as low as 5 percent. Why? Fish tend to take bait deeply in the mouth, where the hook can damage vital organs or cause internal bleeding. They usually get hooked by artificial lures in the jaw, where injury is minimal and hook removal easiest. For these reasons, some catch-and-release areas prohibit the use of bait and limit tackle to artificial lures or flies.

Barbed or barbless hooks? While there is little hard biological evidence to favor either type of hook, barbless hooks are easier to remove from the mouth of a fish and can thus speed the release. A few tackle manufacturers sell barbless hooks, but many anglers find it more convenient to file off or crimp down the barb of a regular hook with pliers, as in the photograph above. Some areas require the use of barbless hooks only.

Playing and landing fish

Don't overplay fish. Like long-distance runners, fighting fish can overexert themselves. As they struggle, they build up an oxygen debt; an exhausted fish may not be able to recover.

To net or not? In some situations, a fine-meshed landing net can help you release a fish sooner. Experienced catch-and-release anglers leave the net—and fish—in the water while they remove the hook. If you use one, make sure netting doesn't become entangled in the gills, which are fragile organs.

DOUG MCNAIR

streamer fly) for barbless fishing

handling

p fish in the water. Remember that a out of water is suffocating; it may survive more than 3 or 4 minutes ause of damage due to lack of oxy- . Also, a fish out of water is many es heavier than when immersed; it ld seriously injure itself if allowed to on ground or rocks.

ndle with care. Never squeeze fish, rticularly in the belly, or you could se internal injury. Keep your fingers of the gills. Small fish can be held by lower jaw while you remove the ok; larger ones can be held gently by cing one hand behind the head.

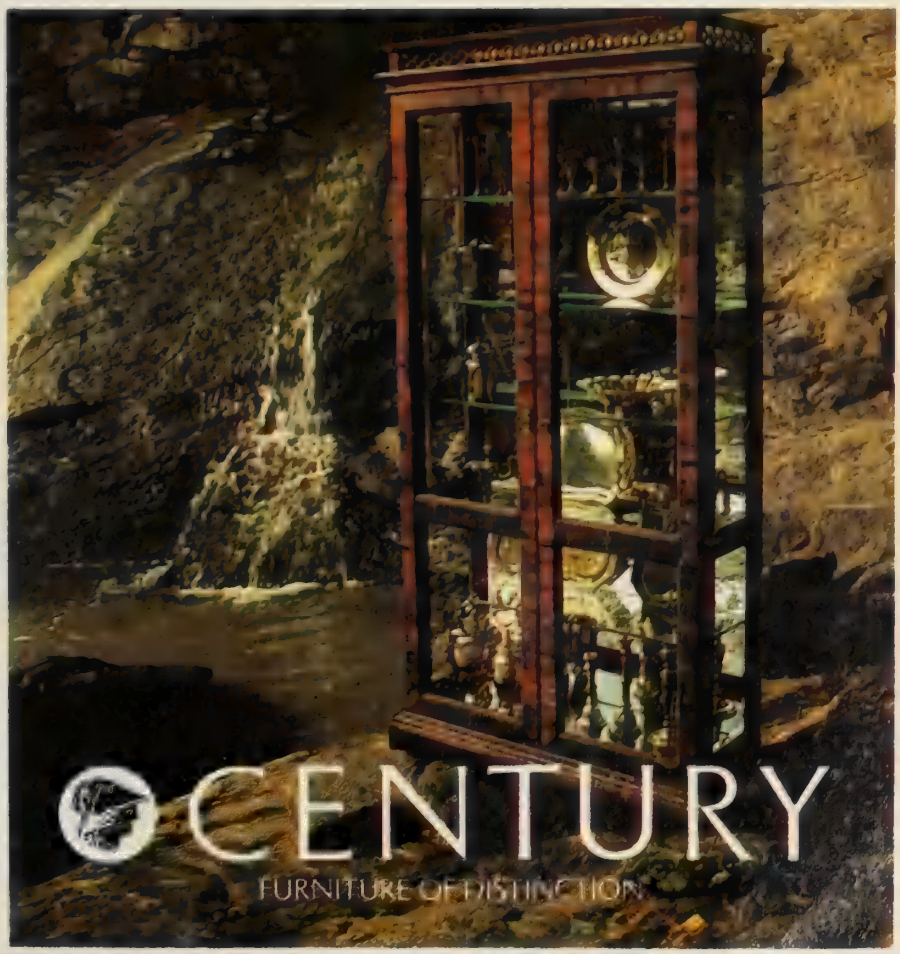
me anglers wet their hands before ndling a trout; they subscribe to the ief that dry hands rub off the salmo- l's protective coating of mucus, leaving fish more susceptible to waterborne eases. Other fishermen find it difficult handle already slippery fish with wet nds; they maintain that dry hands limit mbling and reduce handling time me even wear wool gloves). Which- er you choose, gentleness and speed release are the primary goals.

nhooking your catch. The shock of aring out a hook can kill fish, particu- rly smaller ones. Instead, use long-nose iers (some anglers prefer to use surgi- l hemostats sold in medical supply res and some fly fishing shops) to re- ove the hook. However, if the fish deeply hooked, it's better to cut the ader or line and leave the hook in ther than to risk further injury.

esuscitation for fish? After a hard fight, me fish may float belly up or even se consciousness; others may simply be winded" and dazed. In either case, some tificial respiration is called for.

s pictured on page 55, hold the fish in e water (in a river or creek, head it up- ream), then move it forward so water an run through and aerate the gills. This esuscitation may take a few minutes. Vhen the fish revives and is able to swim ormally, release it. □

Write us at Saskatchewan Travel, 3211 Alberta St., Regina, Saskatchewan S4S 5W6. Or see a Travel Agent.



Write for our booklet. Send $1 to Century Furniture Company, P.O. Box 3427, Dept.C-9, Hickory, NC 28601.

Ratto's. *Tall salamis dangle above a sea of cheese. Store also sells sandwiches*

JERRY FREDRICK

Second Time Around. *Beaded 1920s flapper dress wins approving nod from boutique owner Deborah Grady, in snappy 1940s dress hat*

Liberty House. *Vibrant mural in lane depicts community members*

Mi Rancho. *Tortillas cruise toward cooker while visitor looks on*

easy to spot: *shuttle bus, smaller than other city buses, is painted with colorful stripes and musical notes*

A day in downtown Oakland

It's getting livelier. Shops, walking tours, striking new mural, Thursday harbor tours. And it's easier to get around ... thanks to a new 25-cent weekday shuttle bus

t **first glance,** downtown Oakland may em an unlikely destination for a day's ıting. But beneath its high-rises, vacant ts, and old buildings lies a rich and di- rse character: you can see it in the ea's cafes, delicatessens, and ethnic ıops, and in the eclectic mix of archi- ctural styles that grace downtown reets.

his summer, free harbor cruises ply the akland estuary twice each Thursday ırough August. Flowers are blooming the Kaiser Center's roof garden. The arrow, crookneck extension of 15th treet between Broadway and San Pablo ow teems with 20-foot-high people, ainted with great verve by young mu- alists on the side of Liberty House.

ıst north on San Pablo, at 1551, Crown oint Press has opened a large and airy ew gallery to display the etchings that his printmaking firm has been painstak- ıgly producing for American and Euro- ean artists for many years (hours are to 5 Tuesday through Saturday, and other times by appointment).

At the Oakland Museum through July 5, you can see the "American Photographers and the National Parks" exhibit, with 205 images by 35 photographers. Through August, a pictorial quilt of Oakland landmarks—a hand-stitched gift to the museum from the League of Women Voters—is also on display there. The museum is open Tuesday through Saturday, 10 to 5; Sunday noon to 7.

Linking these and other attractions is AC Transit's new weekday shuttle bus that circles downtown every 10 minutes from 9:30 to 4:30. Convenient stops are near BART stations, regular AC Transit stops, and parking (for route map and more details, turn the page). Regular fare is 25 cents; for 50 cents you can buy an all-day pass good for unlimited stops.

For a day's sampling of the different faces of downtown Oakland, we suggest three stops along the shuttle route—Jack London Square, uptown at the Kaiser Center, and Ninth Street and Broadway for downtown and Chinatown.

Consider timing your visit to coincide with one of five free walking tours, a harbor tour, or a visit to the historic Camron-Stanford house (open Wednesdays, 11 to 4).

Along the waterfront . . . ships, shops, cruises, and Jack London lore

Jack London Square and nearby Jack London Village are easy places to start your tour, especially if you drive to Oakland: they are close to the Broadway off-ramp of the Nimitz Freeway (State 17), with several parking areas nearby.

Memorabilia of the author, including the sod-roofed Yukon cabin where he spent the winter of 1897-98, are interesting stops among the restaurants and shops.

For a closer look at the busy port—with its estuary where London pirated oysters in the late 1800s, its seagoing vessels berthed at container yards, and its cargo terminal areas—free guided 90-minute cruises embark from the harbor tours

boat dock on the southeast corner of the square at 10 and noon Thursdays through August. Reservations are required; call (415) 444-3188, ext. 375.

At *Peerless Coffee Company,* 260 Oak Street at Third (a brisk walk or short shuttle hop from Jack London Village), you can watch coffee beans being roasted. Some mornings, you may catch a glimpse of owner George Vukasin taste-testing new coffees. Peerless also sells gourmet jelly beans, fresh roasted peanuts, and herbs and spices in bulk.

Uptown: soaring towers and art deco

Get off the shuttle at 20th and Webster streets. Shops and restaurants line the mall and mezzanine of sleek Kaiser Center. Atop the parking garage, a 3½-acre garden with duck pond, fountain, and changing flower show is something of a structural marvel: trees stand over columns of the parking lot below. Be sure to visit the center's two art galleries: paintings and prints on the mezzanine of the Kaiser Building and angular contemporary sculpture in the lobby of the adjacent Ordway Building (open Monday to Friday, 8 to 5).

From here, it's a short walk along 20th to Broadway for a look at some examples of 1920s moderne architecture. Start at the restored Paramount Theatre and walk down Broadway, looking at the architectural details of the theater, the jade green I. Magnin & Co. building, and the H. C. Capwell building.

Turn right on 19th to Telegraph to see the 1929 moderne Floral Depot with its silver and blue terra cotta tiles. The former Fox-Oakland Theatre, 1815 Telegraph, is topped with Islamic towers.

Midtown sampler

Scattered throughout midtown—along the shuttle route or just a few blocks' walk from it—are a number of shops worth a visit. These include:

Holmes Books, 274 14th Street, has three floors of new and used books; hours are 9:30 to 6:30 Tuesday through Thursday, to 9 Monday and Friday. A magazine section, with old photographs and magazines dating back to prewar days, is open 10 to 5.

Second Time Around, 351 17th Street (at Webster), sells and rents vintage clothing to "ladies and gents." It's open noon to 6 weekdays, till 4 Saturdays.

Victorian Row—the spirit of Old Oakland

Commercial Victorians in various states of battered elegance line both sides of Ninth Street between Broadway and Washington. In the 1870s, they were the bustling downtown center: the Delger Building on the northwest corner of Ninth and Broadway housed the Oakland *News,* the city's first newspaper, and the Wilcox Building on the southwest corner was the town's first brick building. Decline started in the 1920s, when new department stores uptown created a separate retail area.

For an overview of the area, walk northwest on Ninth to Washington, left to Seventh, and left again toward Broadway.

For lunch along the way, several businesses have kept loyal customers coming for years.

G. B. Ratto & Co., at Ninth and Washington, is an international grocer and delicatessen with a sit-down cafe that serves sandwiches. *Mi Rancho Mexican Market,* in the old Southern Pacific ticket office at 464 Seventh Street, sells enchiladas and tacos to go, as well as chocolate, chorizo sausages, piñatas, and other Mexican specialties. You can watch tortillas being made in the factory at the back of the store.

Dahlke's, in an unassuming low building on Broadway at Seventh (open 9 to 5 weekdays), is a Victorian bar and sandwich buffet. *Nick and Gus's,* on Broadway at 12th, is a soup and sandwich spot frequented mostly by business people. Wood-paneled walls, potted palms, and vintage photographs recall its days as the "Original Hole in the Wall Cafe."

Chinatown . . . bakeries, shops, open markets

Like much of Oakland's downtown, Chinatown is undergoing changes. Still, the area teems with old markets, shops, and bakeries. Restaurants abound, especially on Webster between Seventh and Ninth. Worth a look is *Yang Sang Co.,* 411 Ninth, a Chinese herbal pharmacy. *Jade House,* 333 Ninth, sells brooches, beads, bracelets. *Mandarin Bazaar,* 312 Eighth near Harrison, sells quilted jackets, carved wooden chests, dolls.

Reboard the bus at Ninth and Broadway to return to Jack London Square.

Guided walking tours . . . every Wednesday and Saturday

For a closer look at some of Oakland's downtown neighborhoods, you can take a free guided walking tour any Wednesday or Saturday, leaving around 1.

The tour will cover one of five areas. Four—Old Oakland / Victorian Row, City Center / City Hall, Uptown to the Lake (including the Paramount Theatre and Kaiser Center), and Chinatown—are right next to the shuttle route. The fifth tour covers Preservation Park, four blocks northwest of City Center between 11th and 14th at Grove, where Victorian houses are being stockpiled for future siting and renovation.

For details, write to Volunteers for Oakland, City Hall, 1421 Washington St., Oakland 94612, or call (415) 273-3234.

Riding the shuttle

If you take BART into downtown, transfers to the shuttle are available at all stations; stop at the transfer machine before leaving the station's paid area. If you come by another AC Transit bus, ask the driver for a shuttle transfer. For schedules, write to AC Transit Customer Services, 508 16th Street, Oakland 94612, or call (415) 653-3535. □

JERRY FREDRICK

Architectural history *up close: 1920s moderne at Floral Depot abuts Beaux Arts (left); floral motifs are common in both. Wooden owl (right) keeps pigeons at bay on 1890s Victorian in Old Oakland*

Along the waterfront, uptown, midtown, Victorian Row, Chinatown

Victorian Row. *Under renovation, ornate Arlington Building slowly returns to 1870s splendor; inside will be offices, shops*

NORMAN A. PLATE

Trans Pacific Centre. *Steel skeleton of complex's first building rises near long-time landmark, Tribune Tower*

JERRY FREDRICK

Tomorrow's Oakland: six places to look in on it

Stand on the corner of 10th and Broadway and you'll see Victorian buildings awaiting restoration on one corner, vacant lots under excavation on another, and the steel skeleton of a new building rising on a third.

These projects—part of a long-range redevelopment program encompassing a 23-block area in the heart of downtown Oakland ("a labyrinth of proposals" to some skeptics)—have suffered growing pains since the planning commission designated the declining area a prime target for renewal nearly 15 years ago.

With urban renewal money, the redevelopment agency began to buy land and buildings to sell to private developers. Changes have evolved slowly—beginning in 1972 with the new City Center complex at 14th and Broadway.

Visible change is still scattered, but promising. Here's where some of the current projects (shaded and numbered on our map) stand at present.

① **Trans Pacific Centre.** Under development by a trio of Hong Kong companies, this planned complex of commercial and office buildings is a sign of growing international interest in Oakland. The first building is slated to be completed within a year.

② **Victorian Row/Old Oakland.** Windows gape and paint is peeling from many of the old buildings here, making them look like defunct movie sets. Pawnshops still carry on business in some of them. But these jewels of Victorian architecture—survivors of the 1906 earthquake and fire that destroyed many of their counterparts across the Bay—are protected by zoning controls and are slated for restoration.

Long-range plans call for the re-creation here of pedestrian-oriented streets typical of the 1900s, lined with offices, shops, a "storefront museum" for old Oakland memorabilia, and sidewalks with cobblestones. Private developers are now restoring two buildings at Ninth and Washington streets—the red brick LaSalle and the ornate, wood-trimmed Arlington building opposite it.

③ **Hotel and convention center.** Behind the plywood fence bordering this 2-block area, excavation has begun for a 20-story Hyatt Regency Hotel and convention center combined in one structure.

④ **Proposed City Center shopping mall.** Plans uncertain.

⑤ **City Center complex.** Two office buildings completed; a third one will be built soon.

⑥ **Preservation Park.** Empty Victorians perched on weed-choked lots, gracious old homes still privately owned, and historic buildings make up a 3-block area bordered by 11th, 14th, Grove, and Castro streets—slated to become an architectural heritage park.

So far, five historic buildings have been moved to the area from elsewhere in Oakland. Plans call for renovating these and some existing buildings here to create a Victorian business neighborhood. Existing historical buildings include the Pardee Mansion (1868) at 11th and Castro and the First Unitarian Church (1890) at 14th and Castro.

1 · *To turn the big burger, scoop it onto a cooky sheet. Use second cooky sheet to help push it on*

2 · *Sandwiching burger between the two, hold the cooky sheets together and invert the patty*

Flip, flop, flip

A barbecue maestro deals with a platter-burger ... big enough to feed eight

Grill a platter-size meat patty, serve it on a round of French bread with cheese and colorful vegetable toppings, and you've turned the everyday hamburger into a showstopper.

We present two choices: a Mexican-seasoned beef patty with a topping of chilies, tomatoes, and avocado; or a Greek-seasoned lamb and beef patty with a creamy feta cheese mixture piled on vegetables.

Both are served on the bottom half of a sourdough bread round. The top half is spread with seasoned butter, toasted on the grill, then cut into wedges to serve as an accompaniment.

Shaping and grilling the patties is easy. Press meat mixture firmly into the bottom of a large bowl, then invert onto a large cooky sheet covered with waxed paper. Pat meat mixture into a round that measures 11 inches in diameter (or 1 inch larger than your bread). Cover and refrigerate if made ahead.

To grill the meat, mound 25 to 30 charcoal briquets in a barbecue. Ignite them and let them burn down until they're covered with gray ash. Spread the coals so they're sparsely distributed in a single layer 6 inches below the grill, then set grill in place.

Holding both ends of the cooky sheet, invert meat patty onto grill; peel off waxed paper. Cook about 7 minutes on each side for medium-rare (or until done to your liking); turn patty over with two cooky sheets as shown above. Slide cooked burger back onto a cooky sheet.

Mexican-seasoned Platter Burger

Combine ¼ cup taco sauce; 3 tablespoons instant minced onion; 2 cloves garlic, minced or pressed; 2 teaspoons *each* oregano leaves and chili powder; 1 teaspoon ground cumin; 1½ teaspoons salt; and 2½ pounds lean (not more than 23% fat) ground beef.

Mix with your hands or a wooden spoon. Shape and grill the meat patty as directed at left; after turning, overlap 8 ounces of Cheddar cheese slices on top.

Cut 1 round loaf (24 oz.) sourdough French bread in half horizontally. Mix together ½ cup softened butter or margarine and 1 tablespoon chili powder; spread equal portions on each half of the bread. After cooking the burger, lightly grill bread, cut side down. Cut upper half into wedges and keep warm.

For toppings, mash 2 ripe medium-size avocados with a fork; stir in 3 tablespoons lemon juice and garlic salt and liquid hot pepper seasoning to taste. Have ready 2 cans (4 oz. *each*) whole

3 • *Slide burger back onto grill, cooked side up. Use second sheet to help nudge it on*

4 • **That's some burger!** *Platter-size, it fits onto a toasted round of French bread, garnished with chilies, tomatoes, mashed avocado, and olives. It's accompanied by seasoned wedges cut from top half of bread*

NORMAN A. PLATE

green chilies, drained, split, and flattened; 2 medium-size tomatoes, sliced; and 3 black olives.

To assemble, slide burger onto the bottom half of bread. Arrange chilies, tomatoes, avocado, and olives on cheese. Cut into serving-size wedges and accompany with chili bread. Serves 8 to 10.

Greek-seasoned Platter Burger

Combine 3 tablespoons *each* lemon juice and instant minced onion; 3 cloves garlic, minced or pressed; 2 teaspoons oregano leaves; ¾ teaspoon ground coriander; 1½ teaspoons salt; ¼ cup *each* finely chopped fresh mint and parsley (or use ½ cup parsley); and 1 pound *each* lean (not more than 23% fat) ground beef and lamb. Mix thoroughly. Shape and grill the meat patty as directed at left.

Cut 1 round loaf (24 oz.) sourdough French bread in half horizontally. Mix together ½ cup softened butter or margarine and 2 cloves minced or pressed garlic. Spread equal portions of the butter on each bread half. After cooking the burger, grill bread, cut side down. Cut upper half into wedges; keep warm.

For toppings, beat 2 packages (3 oz. each) softened cream cheese until smooth; stir in ¼ pound crumbled feta cheese. Have ready 1 large red onion, sliced; 2-medium-size tomatoes, sliced; 1 jar (7 oz.) marinated artichoke hearts, drained; and a mint sprig.

To assemble, slide lamb burger onto bottom half of bread. Top with onions, tomatoes, feta mixture, artichokes, and mint sprig. Cut into serving size wedges and accompany with the garlic bread. Serves 8 to 10. □

DARROW M. WATT

Greek seasonings *spark burger of lamb and beef topped with onions, tomatoes, feta cheese spread, artichoke hearts*

Freestanding A-frames *for tomatoes (foreground) and cucumbers (rear) and built of redwood 2 by 2's—6-foot uprights bolted to a rectangular base. Twine will support vining tomatoes; determinate kinds fit inside wire cages*

Vegetable engineering

That's what you get from two mechanically minded gardeners. Modular beds. Disciplined tomatoes. Drip innovations. Bumper crops

During work hours, Ed Wilson of Redwood City, California, is a financial advisor, and fellow organic gardener Dean Bunnell of San Jose is an engineer. Off-hours for the past five years, they have swapped garden innovations and mechanical know-how. Their back yards are their workshops, packed with well-engineered details any gardener could use. Here are eight close-up examples.

These belong to an intensive vegetable-growing system based on modular raised beds fitted with interchangeable elements —plastic mulch, movable support structures, drip lines, emitters. Use any of these, or combine them to streamline your own raised-bed garden.

For more information on how Wilson and Bunnell raise bumper crops and for plans of the gardens, see page 164. □

Slide-along bench. *Scrap of 2-by-12 lumber spans the walkway between raised beds, making a handy perch*

Hose holder. *At the end of beds, two nails anchor end caps, so drip hoses lie straight in their rows*

DARROW M. WATT

'lastic trellis *with removable crossbars sits atop plywood platform and pontoons so pickers can cross without trampling soil. Weight-earing uprights are schedule 40 PVC pipe; rest of trellis is lightweight schedule 120. Twice the price of wood, it lasts much longer*

Drip watering, three ways. *Above, low-volume misters sprinkle seed-sown radishes. At left below, regular soaker hoses water rows of radishes, peas, and garlic, but reduced water pressure makes them trickle, not squirt; plastic valves control every line. At right below, emitters with extension tubes serve individual transplants*

Anti-bird cage *for seedlings is lightweight plastic pipe covered with netting. It fits over any of the raised beds, moves easily where it's needed*

Clone art? Living sculpture?

Whatever you call it, these Palos Verdes students enjoyed it. The idea is simple: Draw a life-size replica. Stuff it. Parade it. Take it home

Pick a position *while a friend outlines your shape on double layer of paper. Use crumpled newspapers or paper towels to give the body three dimensions*

The population doubled at Silver Spur Elementary School in Rancho Palos Verdes, California, the day students completed these life-size paper replicas of themselves and then joined in a lively schoolyard parade.

The project was one of six "Art at Your Fingertips" programs held each year at nine public and three private schools. For each project, a professional artist teaches nearly a hundred volunteers how to do it, then they take the idea to the schools. Funds provided by the Palos Verdes arts association, junior women's club, school district, and PTAs pay for the artists and supplies.

Every May, there's a display of the completed work (2,000 pieces were exhibited last spring) at the Palos Verdes Community Arts Association galleries.

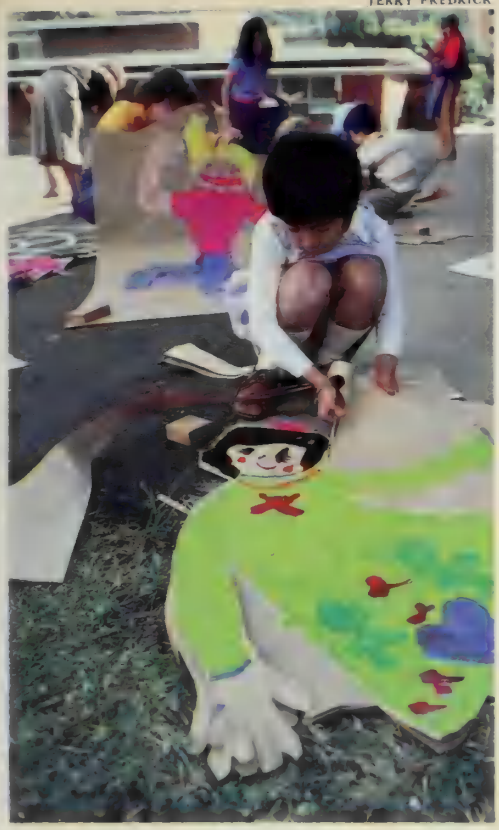
For this project, artist Don Francis took the old idea of body tracing a step further by stuffing and stapling a double thickness of paper to make a three-dimensional figure. Some children treated their figures realistically: "I rode home with mine and made some people jump." Others dealt in fantasy: "It was a kind of secret self." The art teacher's observation: "I'd never seen so many parents and children working on the same project and having so much fun together."

To make paper children like these, you'll need 36-inch-wide brown or white kraft paper, scissors, stapler and an ample supply of staples, poster paint, felt-tip markers, chalk, and crayons. Remnants of yarn, felt, or cloth could be added.

Roll out a length of paper twice as long as the child and fold it in half crosswise. Then trace around the child with a marker (trace wider than the body to make it easier to stuff later). Decorate the front of the figure and the back, too, if desired. Cut out both layers of paper, leaving about an inch-wide border.

Staple along one side, leaving an inch or less between staples. Stuff from the open side with lightly crumpled newspapers or paper towels. Staple second side. □

TERRY FREDRICK



Cut out both layers *of paper together. For easier stapling and stuffing, she'd do better to leave margin around figure and cut hands like mittens*

Pigtails in flight, *duplicate races with original to schoolyard parade; some children added ribbons and decorations to their painted paper person. Soccer and football players (below) join their makers for a parade on the field*

PETER O. WHITELEY

Water-washed flagstones *edge 7- by 15-foot pool built into steep bank; depth is 4 to 5 feet. Waterfall in background spills from stone-ringed spa. Owners: Bob and Nancy Roach, Mill Valley, California. Design: Rod Garrett*

Lap pool, *9 by 30 feet, only 5 feet deep, fits neatly into narrow back garden. Owners: Betty and Len Blackford, Sacramento. Design: Dennis Blackford, Blackford Landscape*

Tiled edge *of pool doubles as bench in Marilyn and Frank Callipari's patio. Design: Richard A. Wilson, San Diego*

Pool's flowing edges, *narrow coping minimize separation between water, garden. Spa fits into corner made by angle of deck. Design: Rod Garrett*

When garden space is tight, when cost is a factor

Small pools make sense

We show 13 pools, the smallest 8 by 12 feet. Some are just for dunking, some for swimming laps, some beautiful to look at

Letting a pool dominate your back garden isn't the only way to enjoy the pleasures of water at home. Today, with higher pool maintenance and operating costs and often smaller lots and smaller families, it makes sense to choose a size and design tailored to your needs.

Are you lap swimmers or dunkers? How much available space do you have? And don't rule out a pool because you think you don't have room: pools have been shoehorned into some tight and seemingly impossible sites.

On these six pages, we show different alternatives, shallow to deep, plain to fancy, boxy to string-beanish.

Reflecting pools also for swimming

More and more pools are being designed as a sculptural landscape feature rather than as a dominant, often intrusive shape. Look at the installations above and on the next two pages.

The 6½- by 25-foot pool at top right enhances a walled entry courtyard. At one

Jets of water *in slots at sides of brick backdrop splash into 10-by 20-foot reflecting pool at the end of patio. Below, it's swim time and pool becomes 7-foot-deep plunge. Owner: Joyce R. Melrose, Santa Cruz, California. Design: Roy Rydell*

NORMAN A. PLATE

Our cover pool, below. More bricks, above

Nylon cords *hooked into high edges provide safety hand grips (left). Patio view shows pool in tiny garden. Design: Lawrence Reed Moline for Louise and Stewart Margolis, Los Angeles*

GLENN CHRISTIANSEN

side a raised spa spills water into the pool like a fountain, and under the wooden bridge you cross to reach the patio is an inlet pipe that creates a sheet-like waterfall (top left, page 72).

The brick-faced pool pictured above functions like a reflecting pool; along the back edge, fountains flank a plant display shelf. But it's also long and deep enough for swimming.

For a naturalistic look—to suggest a grotto or mountain stream—a pool can be edged with rock and surrounded by lush plantings. In the small upper photograph on the facing page, the Tucson desert pond looks as if it's being fed by a stream flowing out from under a grove of mesquite trees; in fact, the water flows from a raised spa down a rocky channel to the pool. The one shown below it, in Portland, has the look and feel of a mountain pool carved into rock at the foot of a waterfall. It's 3 to 4 feet deep, 8 by 12 feet long. To enhance the reflection of the plants and clouds, both pools are dark-plastered.

The design at far right combines reflect-

TIM FULLER

Desert pool *is about 7 by 24 feet, ranges from 3 to 6 feet deep. Planter and spa in background have tile decorations. Owners: Dan and Clarlyn Elder, Tucson. Design: Dan Elder*

Lush setting: *7½- by 20-foot pool has edging of lava rock with ferns, orchids, overhanging tree ferns. Narrow channel is for fish, water plants. Design: Belt, Collins & Associates, Honolulu*

MICHAEL THOMPSON

Mountain-like pool *in Portland is edged by conifers rhododendrons, bushy boxwood. Design: Huntington and Kiest*

Small *and* natural. In Tucson, with desert stones. In Portland, with rhododendrons. In Hawaii, with lava rock and ferns

ıg pool, swimming pool, and fish pond. he water appears to flow freely between ıe fish pond and the main pool—but ıere are two separate water-circulating ystems. Again, dark plaster on pool des and bottom increases the reflective uality of the water and disguises its -foot depth.

Pools mainly for exercise, games

For serious swimmers, small lap pools can tuck into small spaces without sacrificing swimming distance. Note how well the one shown on page 69 is integrated into its tight site and handsomely landscaped. Both it and the longer lap pool on the next page are wide enough for two lanes of swimmers.

Games and exercise pools can also be worked into small gardens. Since they're only about 4 feet deep, you can stand anywhere for a game of water volleyball and still swim laps when you want to. In the Albuquerque pool shown on the following page, water volleyball games occur regularly on summer weekends—one was in progress when our photographer stopped by. (At 576 square feet in surface area, this pool is in the mid-size range—but it's just over half as deep as a standard pool.)

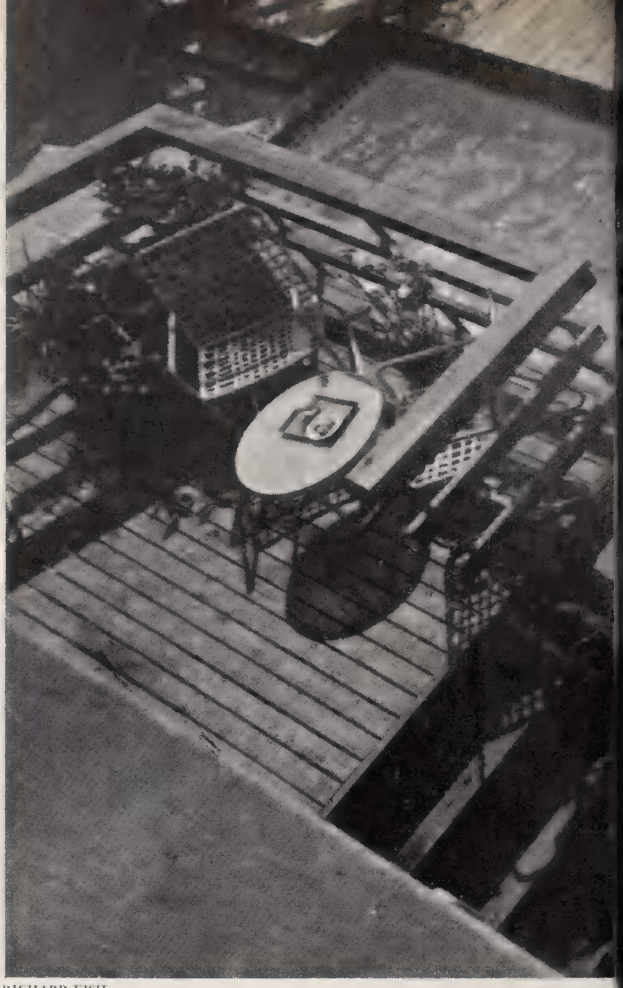
What about costs—for building, maintenance?

A smaller pool will often, but not always, cost less for labor and construction than a standard pool.

Some can be installed with a minimum of excavation. The preformed fiberglass pool shown at bottom of page 73 was lifted over the house on a crane and set

Head-cooling waterfall *is whimsical way to treat inlet water. It's under bridge in tiled pool on page 69*

Small pools to give you a workout. Laps, volleyball, splashing. Small also means shallow ...5 feet deep or less



RICHARD FISH

No-nonsense lap pool *(8 by 37½ feet, 5 feet deep) sits bet*

NORMAN A. PLATE

Water volleyball games *are regular summer events in this Albuquerque pool, 16 by 36 feet but only 4½ feet deep. Pipes for net slip into sleeves in brick deck. Owner: Mrs. Rufus G. Poole. Design: William G. Hays, Fred Mossman, Jr.*

onto a 2- to 4-inch cushion of sand in excavation only 6 to 12 inches deep; t 4-foot-deep pool is essentially abo ground. However, if the site isn't acces ble to pool-digging equipment, the exc vation may have to be hand-dug, addi greatly to the costs.

But there are just too many variables give a realistic range of costs. So mu depends on lot size and geography, co restrictions, type and shape of pool, a cessibility, type and amount of tiling a decking, and additional landscaping. landscape architect who specializes in t design of small pools told us his co range was $10,000 to $20,000: "Not bad price when you consider what y pay for a new car these days."

Besides saving space, small or shallowe than-usual pools save water. While basic, deep-end 15- by 30-foot pool hol anywhere from 13,000 to 19,000 gallo

e and steep bank; wood deck projects over slope. Owners: Bill and Pat Finnegan, Beverly Hills, California. Design: Warren Estrin

Exercise pool *(16 by 30 feet, 3 to 4½ feet deep) has continuous angled wood lounge around two sides for game watching, sunning. Volleyball net attaches to pipes fit into sleeves. Owners: Elliott and Sherry Gottfurcht, Los Angeles. Pool and lounge designed by owner*

PETER G. WHITELEY

DON NORMARK

of water, many mini-pools contain only 4,000 to 6,000 gallons. Less energy is needed to heat and filter the water, and the cost of chemicals to keep it clean and balanced is lower. Another plus: pool covers to reduce heat loss and evaporation can be smaller, easier to remove.

The sun warms shallow pools faster, so some require no heaters. A 4-foot depth is more than adequate for swimming—and for some youngsters, older swimmers, non-swimming dunkers, and many handicapped persons, it's reassuring to be able to stand anywhere in the pool.

Since owning a pool involves a good deal more than deciding on its design, size, and garden location, you'd be wise to consult a book. We suggest the *Sunset* book *Ideas for Swimming Pools* (Lane Publishing Co., Menlo Park, Calif., 1981; $4.95), now in its fifth edition in an all-color revision. □

One-piece *fiberglass pool (12 by 16 by 4 feet deep) holds just 5,000 gallons of water. Solar blanket traps heat. Owners: Allan and Janie Berman, Los Altos, California*

In Italian, *antipasto* refers to any food, simple or elaborate, that precedes the main course. At home, it may just be a few raw vegetables. In a restaurant, it may be a parade of dressy dishes. Because there is such variety, you can easily build a festive buffet with antipasto dishes alone—as we did.

All the recipes featured here are served cold, so you have no last-minute cooking. Most should be made ahead for best flavor.

Antipasto buffet for 12

Poached Veal or Turkey with Tuna Sauce
Pasta and Pepper Salad
Shrimp-filled Tomatoes or Sliced Tomatoes
Lemony Shredded Carrots (optional)
Cold Cooked Artichoke Halves with Mayonnaise
Platter of Raw Vegetables and Anchovy Eggs (optional)
Melon with Prosciutto or Ham
Crusty Bread or Breadsticks
Wine **Sparkling Water with Lemon Twists**

Vitello tonnato is classically made with veal, but turkey breast is a more economical and equally tasty alternative, and it goes as well with the creamy tuna-and-caper sauce. (Another time, this elegant dish could be served as an entrée, accompanied by cold cooked green beans or broccoli and rice salad.)

The pasta salad is spiked with basil and Parmesan cheese.

A small amount of shrimp dresses up tomato halves. (Or serve plain or basil-garnished sliced tomatoes.)

The lemony carrots bring a simple, crisp, refreshing taste to the assortment of flavors.

Serve plain cooked artichokes (we halved large ones) with mayonnaise for dipping. If you like, also offer a plate of raw vegetables with olives and the anchovy eggs.

Wedges of melon—cantaloupe or honeydew—are each draped with a thin slice of prosciutto or ham.

Our menu is for about 12 servings; to expand it, just multiply some of the recipes. Or supplement with some ready-made items purchased at the delicatessen or market such as olives; *giardiniera* (pickled mixed vegetables); roasted red or yellow peppers; sliced cold Italian meats such as coppa, salami, mortadella, galantina; and cheeses such as fontina, Bel Paese; and provolone.

You might accompany the meal with a choice of Italian wines such as white Soave, Verdicchio, or Frascati or red Chianti or Bardolino.

Veal or Turkey with Tuna Sauce
(Vitello Tonnato)

Buy a 4-pound veal leg, boned and tied, or a frozen boneless turkey roast (thaw before using). Place the meat in a 6-quart or larger kettle. Add 1½ cups dry white wine, 1 bay leaf, 1 clove garlic (crushed), and just enough water to cover meat. Bring to a boil, then lower heat, cover, and simmer until meat is very tender when pierced and meat thermometer registers 170° when inserted into the thickest part, 1½ to 2 hours. Let meat cool in stock. Cover and chill.

Meanwhile, make this sauce: Drain oil from 1 small can (about 3 oz.) tuna into a measuring cup. Add more olive oil or salad oil to make 1 cup. In a food processor or blender container, combine tuna, 5 anchovy fillets, 3 tablespoons lemon juice, 2 eggs, and 1½ tablespoons capers; whirl until smooth. Gradually add the oil, pouring it in a thin steady stream, until well blended. Cover and chill at least 4 hours.

When meat is cold, remove it from stock and slice thinly; reserve stock for another use. Pour about ⅓ of the sauce into the bottom of a large shallow serving dish, arrange meat over top, and cover with remaining sauce. Cover and chill at least 2 hours or up to 24 hours. Shortly before serving, garnish with lemon slices and about 2 tablespoons capers. Makes 12 to 16 appetizer servings, 8 to 12 entrée servings.

Pasta and Pepper Salad

- 8 ounces small shell macaroni
- Boiling salted water
- ½ cup olive oil or salad oil
- ⅓ cup white wine vinegar
- 1 tablespoon dry basil
- 1 clove garlic, pressed or minced
- ⅓ cup grated Parmesan cheese
- 1 teaspoon salt
- ¼ to ½ teaspoon pepper
- 2 tablespoons chopped parsley
- 1 large red or green bell pepper, diced

Cook the macaroni in boiling salted water according to package directions. Rinse with cold water and drain well. In a bowl, stir together oil, vinegar, basil, garlic, cheese, salt, and pepper. Mix in macaroni. Cover and chill at least 4 hours or overnight. Shortly before serving, stir in parsley and red pepper. Makes about 12 appetizer servings.

Shrimp-filled Tomatoes

Cut 6 small tomatoes in half crosswise. With a small spoon, scrape out seeds and place, cut side down, on paper towels. Meanwhile, mix together 2 tablespoons mayonnaise; ½ teaspoon lemon juice; 1 teaspoon Dijon mustard; ⅔ cup frozen peas, thawed; and ¼ pound cooked small shrimp. Add salt and pepper to taste. Mound tomato halves with a rounded tablespoon of the shrimp mixture. Cover and chill up to 24 hours. Makes 12.

Lemony Shredded Carrots

Mix together 3 cups shredded carrots, 3 tablespoons lemon juice, 2 tablespoons olive oil or salad oil, and pepper to taste. Cover and chill up to 24 hours. Garnish with chopped parsley. Makes 12 appetizer servings.

Anchovy Eggs

Hard-cook 6 eggs. Remove shells, cut in half lengthwise, and remove yolks. Mash yolks, then mix with ¾ teaspoon minced anchovy fillets, 1 clove garlic (pressed or minced), and 2½ tablespoons olive oil. Refill whites with yolk mixture.

Garnish each with a small piece of anchovy fillet and a few capers. Cover and chill up to 24 hours. Makes 12 halves. □

All cold. All make-ahead. All Italian

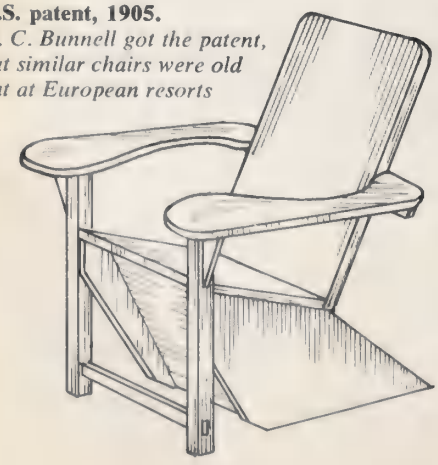
It's the antipasto idea scaled up to serve a dozen, buffet-style

The choices: *pasta sa (noon position), melon, vite tonnato, artichokes, shrimp-fil tomatoes, shredded carro in center, vegeta tray with stuffed e*

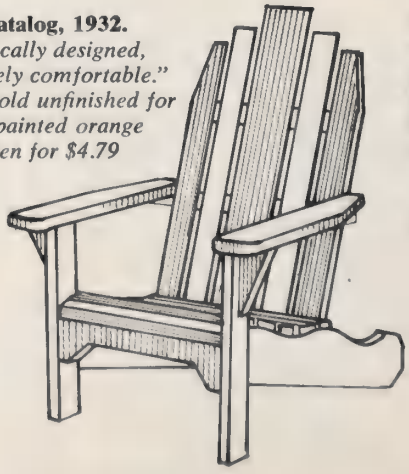
DARROW M. WATT

Sunset's 1981 model: *curved seat and sloping back provide comfortable seating without cushions; generous arms hold drinks, snacks*

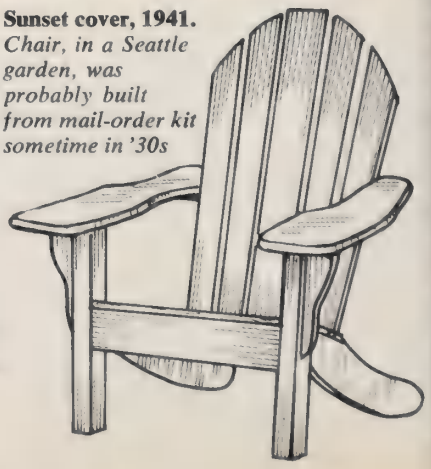
U.S. patent, 1905.
H. C. Bunnell got the patent, but similar chairs were old hat at European resorts



Sears catalog, 1932.
"Artistically designed, extremely comfortable." Chair sold unfinished for $3.98, painted orange and green for $4.79



Sunset cover, 1941.
Chair, in a Seattle garden, was probably built from mail-order kit sometime in '30s



The chair that won the West

Probably Eastern-born, the classic lawn chair came West early in many versions. Here is *Sunset's* own 1981 model. It is easy to build and as summer-comfortable as ever

se are the classic lawn chairs. We w they had been around a long time, after much digging, we found a 1905 ent for "a chair of the bungalow type use on porches and lawns." There is lence the style is even older.

ese 1905 "Bunnell Chairs" came to be own as Adirondack chairs because t's where H. C. Bunnell built them, l because they became popular at re- ts in the Adirondack Mountains. But y also came to the West.

sterners embraced the design to the ent that the chairs were available as il-order kit in the '30s. About one in ee of the historians who helped us re- rch the original chair—and of others queried as well—claimed that their ndparents had had a pair of them on front porch or back lawn. And as we rched for the chairs' origins, we found m everywhere—from ranch in eyenne, Wyoming, to a rose garden in toria, British Columbia, and spa in Mojave Desert.

ere are many versions of the chair; all old plans called for uncommon sizes wood and different styles of construc- n. We built our first chair from plans nd in a 1949 woodshop textbook, then modified the design, building eight different chairs before reaching the style you see here. It's relatively easy to build, using standard lumber and only one type of fastener (1¼-inch #8 flathead woodscrews), yet it retains the graceful lines that have kept the chair popular for more than 75 years.

The chairs at left were built of select pine and painted; you could use other woods and finishes. The pine for each cost $35 to $40. Using a saber saw, circular saw, and an electric drill with a 1¼-inch #8 screw pilot, you could build a pair in a weekend.

Building the chair: step by step

Follow the lumber and materals list on page 78. To ensure that all the joints stay locked together, glue all connecting surfaces with a waterproof glue and set two screws at each joint.

Enlarge the drawings on next page, carefully transferring the curves to the 1-by-6 arm pieces and seat legs. Cut the pieces in pairs; clamp them securely so they don't shift. From the arm scraps, cut 10½-inch-long arm supports and the square support blocks. Round the front corners and rear outside corners of the arms and the back foot of the seat legs on an arc of about 1¼-inch radius. (We used a spray paint can as a guide.)

Start with the H-shaped front support. In each front leg from 10½ to 14 inches up from the bottom, cut a ¾-inch-deep mortise notch. The front stretcher should sit flush in the notch. Attach the curved arm supports so they are flush to the top and front edge of the legs, then attach the support block flush to the top behind the arm supports. Attach the stretcher

shop textbook, 1949, *s our first test chair. en standardized lumber ications, and changed eat leg, arm, and back*

GLENN CHRISTIANSEN

From reconstruction *of the 1949 textbook chair (shown at left in the picture), Sunset's prototypes led through different seat and back configurations, as well as different styles and sizes, to final design on the right*

between the front legs.

Attach the seat legs so they butt against the back of the stretcher and are flush with its top edge; be sure the front H is vertical when the back seat legs touch the ground.

Assemble the back. For the tapering outside back splats, rip a 32-inch 1 by 3 from 2 inches to ½ inch; the two pieces should be identical. Sand the edges.

Mount the center back splat centered on top of the wide side of the 1-by-3 bottom cross brace; place the splat so its bottom edge is flush with the bottom of the support. Next, attach the inside full splats, one on each side of the center splat and each spaced ⅝ inch from it. Attach outside splats ⅜ inch from the previous pair. Finally, use one screw to attach the ½-inch ends of the tapering back splats to the support, their milled edges facing inward and spaced ¼ inch from the adjacent pair.

Mount the uppermost cross brace centered with its bottom edge 27½ inches up from the bottom of the back splats. Attach screws from the back; make sure spacing between splats remains even.

For the middle cross brace, which also supports the arm, you must rip a 30° bevel along its top edge. Center it across the back, with its bottom edge 16 inches up from the bottom of the splats and with its beveled edge up facing toward the front of the chair.

Using a string 14 inches down the center splat as a compass, scribe an arc across the top of the back. Cut the arc with a saber saw.

GLENN CHRISTIANSEN

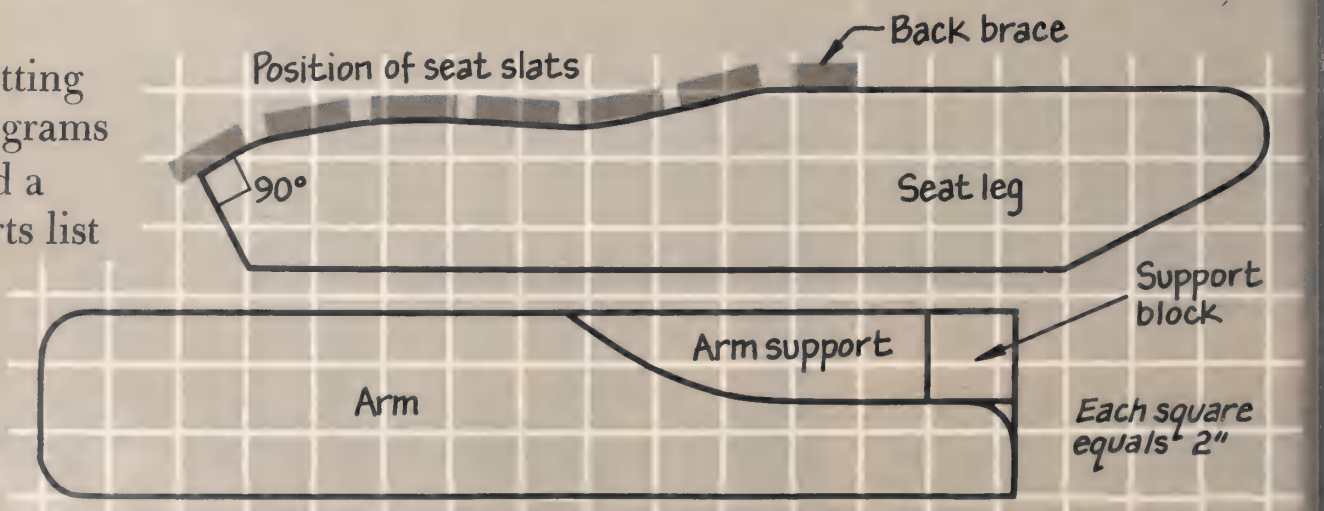
Redwood version *gets coat of waterproof sealer. Behind curved arm supports, note support block; note also two screws on seat leg that hold bottom of back*

Assemble the seat and the back. Attach the 1-by-2 back brace on top of the seat legs, positioned as shown in the drawing. Tuck the seat back's bottom cross brace under this 1 by 2 and have someone hold the back steady while you set one screw on each side through the seat leg and into the cross brace. These will act as pivot points while you adjust position of the arms and back.

Before you put the second screw into each side, attach the arms. First, put two screws through the back edges of the arm into the beveled face of the middle cro brace; at the front, screw up into the ar through the support blocks so that th arms overhang 3 inches in front of th arm supports and ¼ inch over the insid edges of the front legs. Now put the se ond pair of screws into the bottom bac support.

Finally, attach the six 1-by-3 seat slat so the leading edge of the first one flush with the front of the stretche leave a ½-inch space beween each. S down and relax!

Cutting diagrams and a parts list



Here's what you'll need to build one chair

The parts list at right is given in order of assembly for the chair. Before buying lumber, plot what pieces will be cut from each board, allowing 2 to 3 inches per board for scrap. We bought one 6-foot 1 by 2, five 6-foot 1 by 3's, one 6-foot 1 by 4, and one 6-foot and one 8-foot 1 by 6; glue; and one box of screws.

- 2 arms, 2 arm supports, 2 support blocks . . 1 by 6, 28½ inches
- 2 seat legs . . . . . 1 by 6, 31½ inches
- 2 front legs . . . . . 1 by 4, 21 inches
- 1 front stretcher . . . . . 1 by 4, 23 inches
- 2 tapering back splats . . . . . Ripped from one 1 by 3, 32 inches
- 1 center back splat . . . . . 1 by 6, 35 inches
- 1 bottom cross brace . . . . . 1 by 3, 20 inches
- 2 inside full splats . . . . 1 by 3, 35 inches
- 2 outside full splats . . . 1 by 3, 34 inches
- 1 upper cross brace . . . 1 by 2, 21 inches
- 1 middle cross brace . . . . . 1 by 2, 24 inches
- 1 back seat and leg brace . . . . 1 by 2, 21½ inches
- 6 seat slats . . . . . 1 by 3, 21½ inches

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DAVID STUBBS

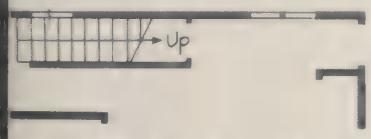
bay *with slanted roof gives sense aciousness to small addition. rled stairwell echoes exterior walls*

Desk with a ay window view

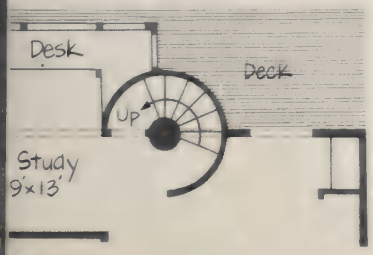
ew through the trees makes this desk ve a bright, airy place to work.

inally, the lower floor of Pat Mc-ish's house in Montclair, California, ained only a bedroom, bath, and case along the south wall. Architect iel Huntsman of San Francisco re-ed the straight stairway with a circu-ne set in a corner. To gain room for ıdy, he pushed the south wall out 7 and turned it into a window bay.

astic laminate desk top, with drawers ach end, spans the window end of new room. Redwood 4 by 4's support tinted glazing, and a 4-by-8 beam forces the floor above. □



re, *straight stairway occupied south . New circular staircase (below) wed 7-foot expansion for desk alcove. ted line indicates former wall*



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U-shaped exterior staircase *links upper rooms and small deck with more generous main-floor deck*

KEN ARNO

Tall wall *in new master suite provides display place for some of the owners' extensive art collection*

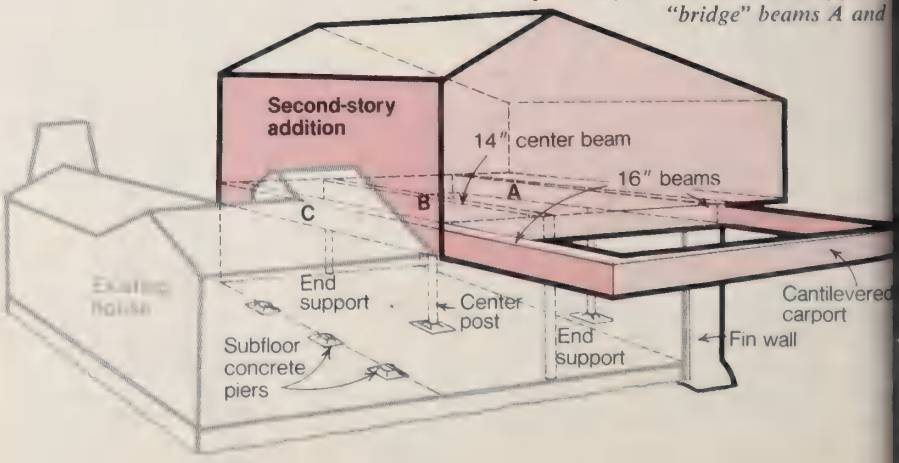
Nowhere to grow, so they built a bridge and perched a second story on it

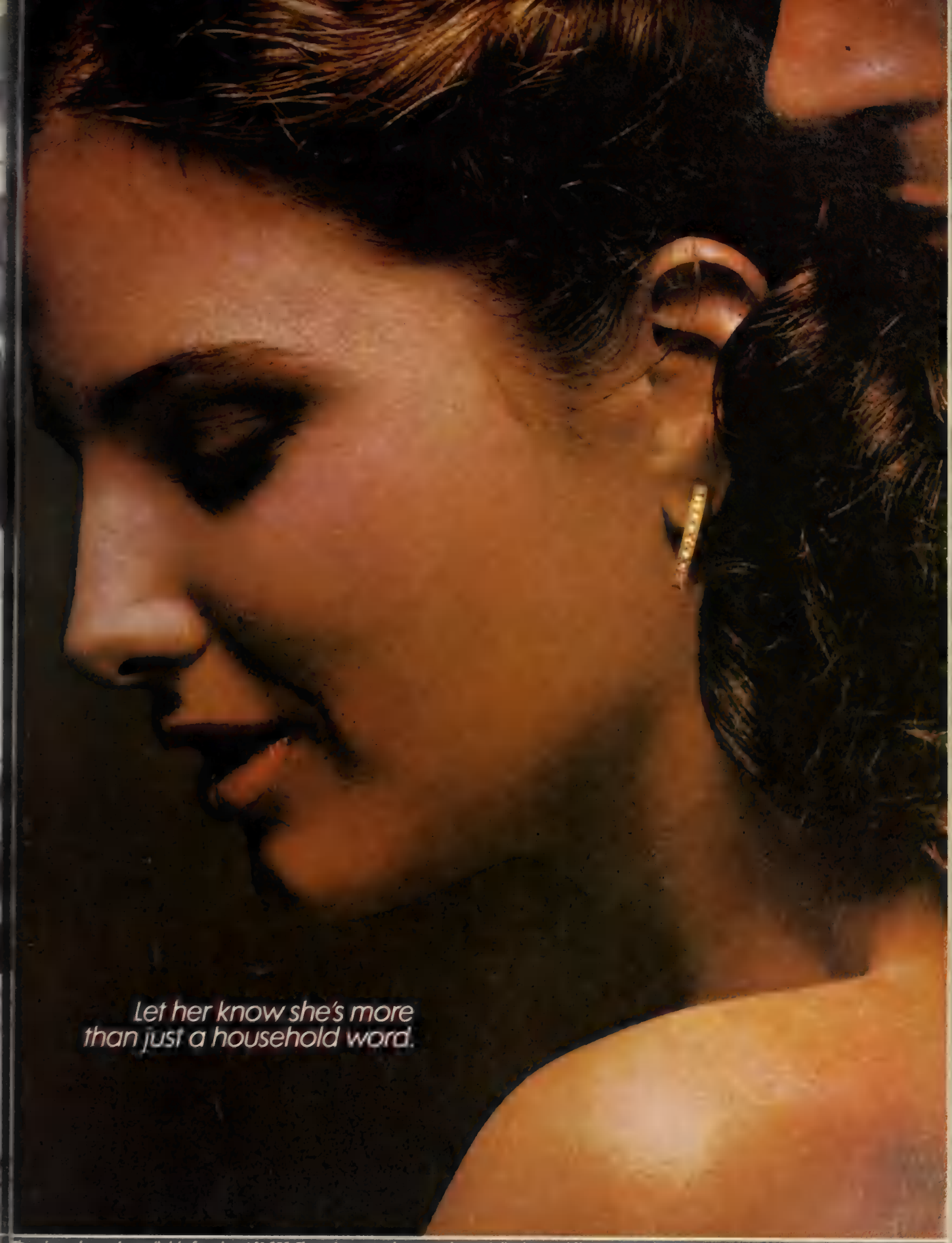
The old on the new. *Addition perches above rear half of hous Cantilevered carport roof is an extension of supportin "bridge" beams A and*

With a baby on the way and an ever-growing art collection, Janet Disraeli and her husband Van Northrup needed more room. But their lot was too small for much lateral growth, and the perimeter foundation of their old house wouldn't support a second story.

Solution, as devised by San Diego architects Walter Collins Associates: bridge over the back of the old house and put the addition on it.

The shingled exterior of the new blends with the old, but a look into the 16-inch-high crawl space between the floors reveals the three beams that span the house's 28-foot-width. (Two cantilever beyond that to support the carport roof.) The beams transfer the addition's weight





The piece shown is available for about $1,390. The price may change substantially due to differences in diamond quality and market conditions. Your jeweler can show you other diamond gifts starting at about $450.

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KEN ARNONE

it stairwell *serves as vertical ry for three dozen prints. th of support beams required e extra stairs to reach the top*

wo new 4½-foot-deep fin walls and a below the back beam (A), to three posts in the walls under the mid- n (B), and to some new concrete s that help support an existing in- or wall under the front beam (C).

de, the owners not only gained 762 are feet of living space, but they de- ed in several large walls for their t collection. (They own The Art Col- or gallery in San Diego.) Now their room wall reaches up to a 14-foot k, providing display space for several e works, while the walls of the stair- provide space for prints that require oser look. □

idge" beams, *clad with plywood, ry the weight of the upstairs rooms, nsfer it to posts within walls*

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Moving?

Grand arches *are actually carefully calculated overhangs that allow sun to strike recessed south solar storage walls in winter but shade them in summer*

Berms *6 to 8 feet high protect house on windward sides—west, north, east—and make fertile garden areas*

DON NORMAN

Solar design cuts heat bills two-thirds. Payoff in 8 years

Porthole *in ground-level storage wall gives view out, while double glazing outside it helps keep heat in*

Concrete half-walls *store heat to warm upstairs rooms at night. View windows will be curtained to retard night heat loss*

"Surprise, it's solar!" Guests often remark on the light and warmth of Jeff and Linda Ellis's new house—while wholly unaware of its all-out solar basis.

That's what solar designer Ellis intended: 265 cubic feet of concrete, double-glazed on the south, passively collect, store, and radiate solar heat into the living space—while the house's heavily insulated "stick and shingle" shell blends in nicely with its Boulder, Colorado, neighborhood.

The major solar effect is downstairs, where virtually the entire south wall is glazed-over concrete. Upstairs is a compromise: half concrete to absorb and radiate heat, half windows for light and view. A fan pulls rising heat from the top of the house down through a duct for storage in an under-floor rock bed; from there, it slowly radiates upward to warm even the north rooms.

The extra expense for passive solar in this 2,570-square-foot house was about $6,000—for mass materials, extra glass, the rock bed, and extra insulation. But the design cuts fully two-thirds off the annual heating bill (which totalled $91 for the whole winter of 1980-81), and estimated pay-back time for the added construction cost—considering expected increases in conventional heating costs—is just eight years. □

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PETER O. WHITELEY

Acrobat hangs *from chinning bar of ¾-inch galvanized pipe. Open barrel under deck bolts to pole ends and to crossed 2 by 4's. Staircase is a stack of eucalyptus rounds*

Swing, slide, chin, crawl through

For the time (two days) and the money (slightly over $100), it's hard to beat the play structure that architect Steven Perls built at his home in Walnut Creek, California. The space-efficient structure has two levels, three sides, and many ways to work out.

Perls hung it all from three 8-foot-tall pressure-treated poles sunk 18 inches into the ground. To lock them together and support the upper level, three 2 by 6's joined with cross-lap joints bolt to inside faces of the poles. Below, 2 by 4's are used the same way. □

Wide slide *has galvanized sheet metal over ¾-inch exterior plywood. Side rails and platform are redwood 2 by 6's*

Homemade cargo net *is one way up to platform. Note how 2 by 4's edge the platform decking*

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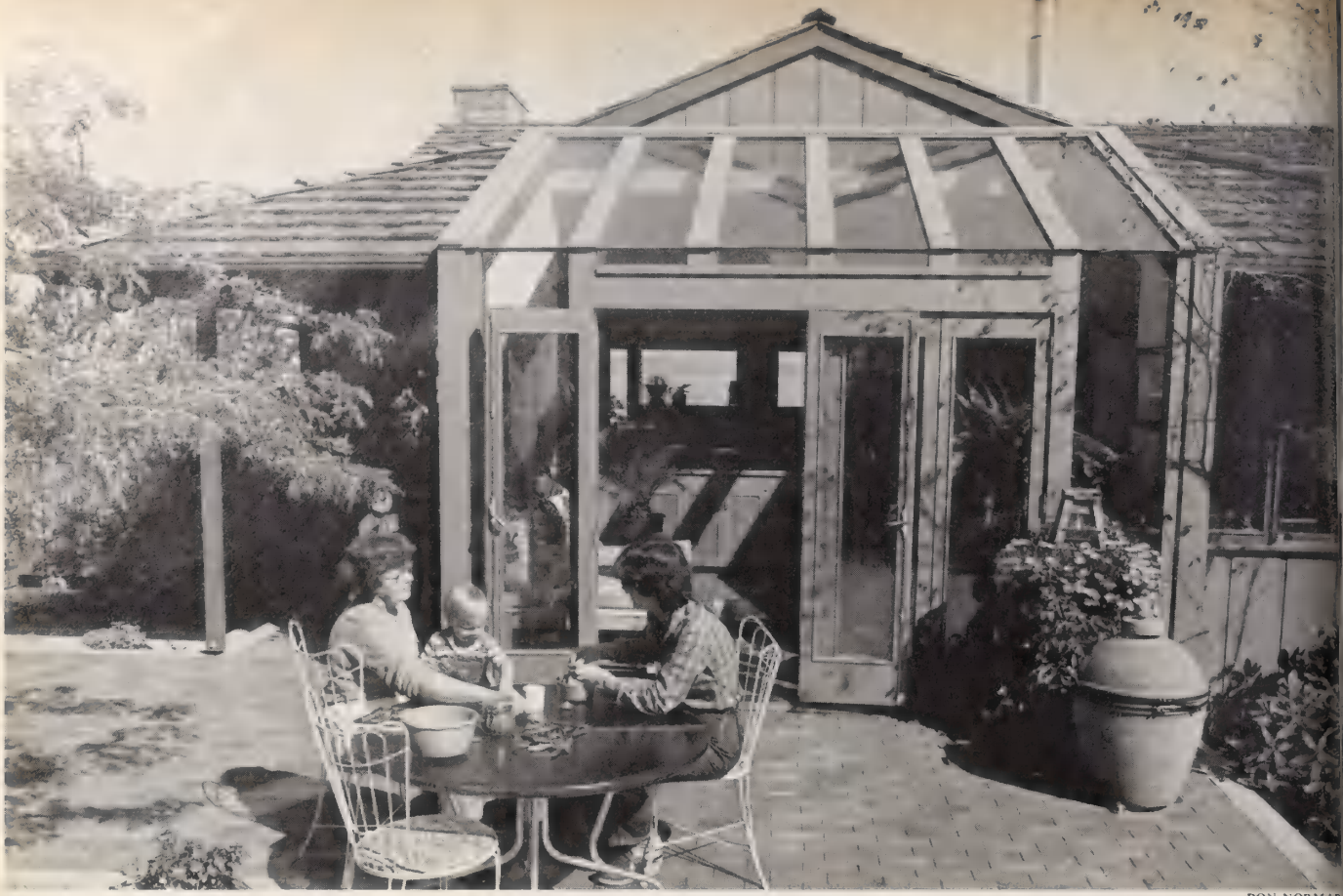

DON NORMAR

Glass roof *of add-on solarium faces south to capture sun's warmth; heat is stored in concrete slab under new brick floor*

Glass-roofed solarium captures sun's heat

Shed roof *of solarium spreads across porch to tie into gabled roof of kitchen addition*

A plain-Jane ranch house on Whidbey Island, Washington, worked well enough as a summer place for Dr. and Mrs. Kenneth McCaffree. But when they decided to live there year-round, they faced up to some serious problems of livability.

Most windows faced north to overlook the waterfront, so little direct sunlight warmed the rooms. Heating costs were very high. And outdoors was no better: there was no seating area that was not unprotected, windswept, and cold.

Architects Geise & Associates opened the house to the south, adding a new kitchen and adjacent glass-roofed solarium. A lowered partition between the new kitchen and the old living-dining room balances the light in the house, lets the cook remain part of the action, and gives everyone some of the spectacular view. A new terrace takes advantage of a quiet wind-free pocket of sun.

Radiation streaming into the house through the solarium has already cut heating costs. Underneath the new, easy maintenance brick floor, the old concrete slab stores heat for slow release when the sun goes down.

Counter *without overhead cabinets separates kitchen, solarium. Note indirect soffit lighting*

Solarium *is warm family sitting room, with sliding doors and window for ventilation*

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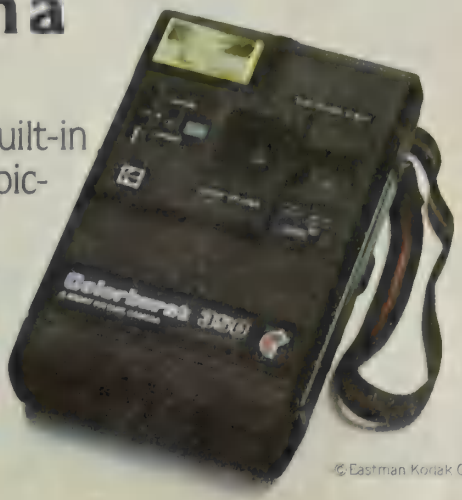

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DON NORMARK

Deck bench *is supported by half-barrel planters. Dark-stained 2 by 6's form the bench frame; slats are natural cedar 2 by 3's*

Barrels hold plants and the bench

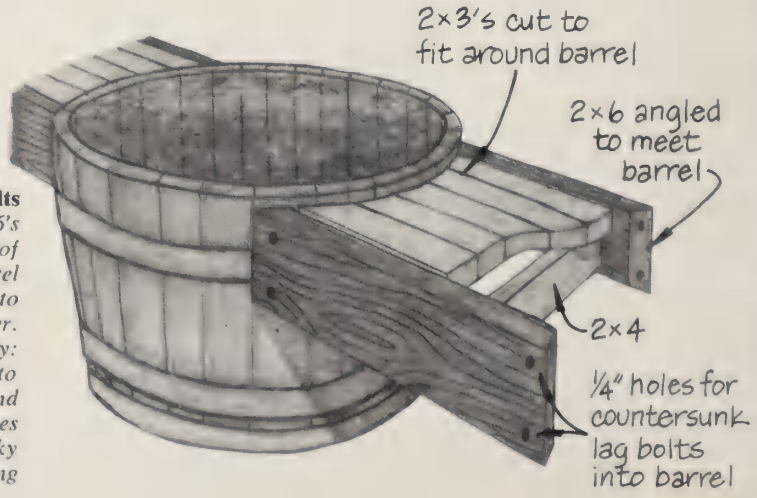
Half-barrels on this deck serve both as planters and bench supports.

The barrel halves (whole ones were originally used to age whiskey or wine) are available at lumberyards, building supply stores, nurseries, and some wineries for $7 to $12 each; they're sold in varying conditions. Architect Paul Brenna of Issaquah, Washington, who designed this project, made sure the ones he picked were sturdy.

He cut the ends of cedar 2 by 6's at an angle to match the barrel's taper, then drilled through them and the barrel sides and set 4-inch lag bolts and washers countersunk into the 2 by 6's to hold the frame together.

Bench slats are cedar 2 by 3's; their ends were cut with a saber saw to fit the arc of the barrel. They rest on 2-by-4 crosspieces that span the 2 by 6's every 3 feet. Crosspieces and slats are held in place with 3½-inch (16d) finishing nails. Barrel edges were rounded with a router.

To provide necessary drainage for plants, four 1-inch holes were drilled in the bottom of each half-barrel; water runs through spaces between deck boards. □



Lag bolts *through 2 by 6's and sides of half-barrel attach bench to planter. Cut carefully: fitting lumber to barrel's arc and taper involves some tricky sawing*

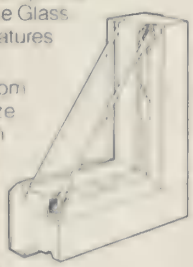
Sometimes there are things you don't want to change when you replace windows.

Like special woodwork. Or the size and shape of the window opening. Or your own standards for quality and craftsmanship. Replacing windows doesn't have to mean giving up details that mean a lot to you. For instance, the arrangement of new Pella Clad ventilating and fixed windows shown here allowed the owners to keep traditional mouldings — and even to place their own stained glass in the fixed units.

When you use Pella replacement windows, chances are excellent that you won't be compromising the character of your home while meeting the need for modern energy efficiency and convenience. Here's why.

Pella offers a generous selection of sizes, shapes and styles. More than any other major manufacturer of wood windows. Tall or short. Narrow or wide. Operable or fixed. Casement, Double Hung or Awning. Clad or primed. Custom sizes. And a host of energy saving glazing options and convenience accessories.

Traditional appearance that's in complete harmony with today's energy requirements. Wood, one of nature's best insulators is used abundantly in all Pella windows and doors. Not only does wood provide the best material for traditional appearance, it also effectively controls thermal conduction and condensation. And only Pella offers six energy efficient glazing and shading options. There's the exclusive Pella Double Glass Insulation System that puts a full 13/16" of insulating air space between panes of glass. Or specify the Triple Glass Insulation System that features ¾" of insulating air space.

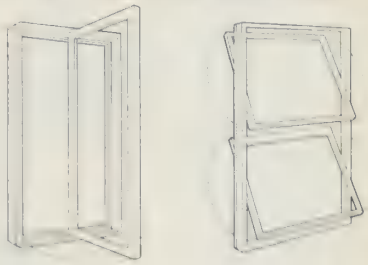


Other energy options from Pella: Solarcool® Bronze glass to reduce heat gain and glare. Triple Insulating Glass for large fixed windows and sliding glass doors, and the exclusive Slimshade® — adjustable narrow slat metal blinds set between panes of glass in the Double Glass Insulation System.

Removable window pane dividers of real wood. Not plastic. Create a more traditional look with these authentically proportioned dividers. Made of solid Western Pine with hidden steel reinforcing at the intersections, these sturdy dividers snap in and out for easy window cleaning. They are furnished with a prime coat of paint on the surface that faces the outside glass, ready to be painted to match the exterior window trim color. The surfaces visible from the inside are unfinished natural wood, ready for stain or paint to match your interior scheme. And these dividers are available in either rectangular or diamond design for most Pella operable and fixed windows and sliding glass doors.

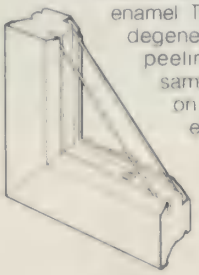
Pella can't eliminate washing. But we've made it easier than anyone else. Pella Casement and Awning Windows feature a unique, patented hinging system that lets the sash rotate 90° toward the center of the frame as it's opened. This gives more than ample room to reach every corner of the outside glass from inside your home.

As for Pella Double Hung Windows, each sash



nests in a spring loaded vinyl jamb liner that allows it to be rotated completely into the house. And, because the sash pivots at its centerpoint, the weight is counter-balanced for safe handling.

The Pella Clad System: A low-maintenance exterior that's right for vintage homes. Protecting the exterior surfaces of the frame and sash is a securely attached aluminum Cladding finished in either White or Dark Brown baked enamel. This tough coat resists color degeneration, chipping, flaking, peeling, and blistering. This same Cladding is also available on Pella Fixed Windows in either standard or custom sizes and shapes, and on Pella Sliding Glass Doors and Skylights.



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Pella. The significant difference in windows.

NORMAN A. PLATT

Angled wall *makes room seem wider than it is. Tiled floor of addition sits flush with floors of inside rooms*

Tilt-wall glass room is their old patio

Enclosing a long, narrow patio was a relatively simple task, but it completely changed the interior appearance and flow of this house in Del Mar, California. Since the house wrapped around three sides of the 25-foot-long patio, all that owners Marj and Bob Metz had to do was add the fourth side.

Once they had completed the tilt-wall greenhouse room, they removed sliding glass doors and windows in the house walls. The new room adds a sense of spaciousness, with house-long views from the living room at one end to a family room at the other. Kitchen and dining room also open onto the addition, and both enjoy the brightness from the east-facing room.

Following a design of Aero Greenhouse and Patio Company, the Metzes used off-the-shelf materials to keep costs down. The distinctive angled wall, which adds to the room's feeling of space, has sliding glass door panels overhead. Since this is tempered glass and cannot be cut, full-size sheets had to be used. The combined width of the house overhang and the length of the panels determined the overhead width of the room. The glass rests on 2 by 6's mounted to a ledger on the eave of the house. The 4-by-4 posts between the large glass wall panels bring the weight down to the concrete pad. Small operable windows help vent heat. □

Tiled kitchen counter *was extended into addition; window opening became pass-through. Doorway at right had a sliding glass door*

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Ⓓ Save $7 on twin size Cuffs comforter

More beautiful reversibles. Rust to chocolate. Navy blue to camel. Just right with our Plaid percale sheets. Polyester and cotton blend. Reg. $34.99.

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A Diane Von Furstenberg exclusive! Now specially priced at Sears

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Ⓔ Save 29% on classic Eternal Tree twin size print percales

Diane Von Furstenberg's elegant garden of flowers is displayed on a background of light beige. These beautiful sheets are easy-care polyester and cotton—PERMA-PREST™ fabric, too. Reg. $8.49.

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Ⓕ Save $9 on coordinating twin size Eternal Tree comforter

It's a plump, puff comforter and it's machine washable, too. The Eternal Tree pattern on one side reverses to soft, light beige. Reg. $44.99.

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Ⓖ Save 30% on beautiful Classic Geometry twin size sheets

These geometric printed sheets will add a classic, tailored look to any bedroom. Blended of polyester and cotton, this PERMA-PREST® fabric needs no ironing when tumble dried. Reg. $9.99.

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This fluffy comforter is accented by a classic design of checks and bold diagonal stripes. Reverses to dark beige. Machine wash—tumble dry. Reg. $44.99.

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Outstanding values for your bath

Ⓐ Save 33% on bright, 100% cotton terry— Sears Colorburst bath towels

100% cotton makes these towels naturally soft. Thirsty terry loops on both sides for added thickness. Added absorbency. The hefty 25 by 50-inch bath size lets you wrap yourself in comfort. And you can match them up with any of the coordinating ensemble pieces from our Colorburst Collection. All on sale now. Reg. $5.99

$3.99 bath size

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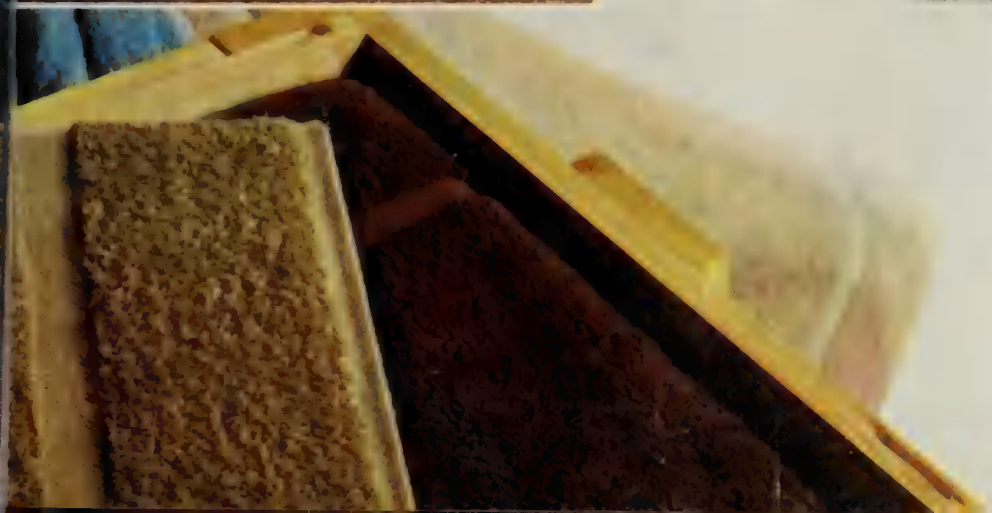

Ⓑ Save 25% on bath size Matchmate towels

These Matchmate solid color terry bath towels are 24 by 44 inches. A luxurious blend of 86% cotton and 14% polyester. Choose from a variety of mixable, matchable colors. Reg. $3.99. **$2.99** bath size

© Save on Daybreak terry bath towels

Blended of 90% cotton and 10% polyester for soft absorbency. 22 by 44-inch bath size. Choose from a variety of solid colors—at one low price. Reg. $2.29. **$1.99** bath size

Other sizes and colors of these towels are on sale, too.

Ⓓ Save $5 on Sears Matchmate hamper

This handy clothes hamper has the attractive look of wicker. Made of woven vinyl fiber reinforced by a durable frame. Padded, hinged lid is covered with leather-look vinyl. Ventilated bottom and back allows for air circulation to help prevent mildew. Reg. $19.99. **$14.99**

Ⓔ Save $4 on Sears Colorburst scale, too

Easy-care bathroom scale covered in wicker-look vinyl. Wipes clean with a damp cloth. Plastic feet help to steady scale and protect your floors. Choose from a variety of vibrant colors. Mix n' match with other items from our Colorburst Collection. Reg. $16.99. **$12.99**

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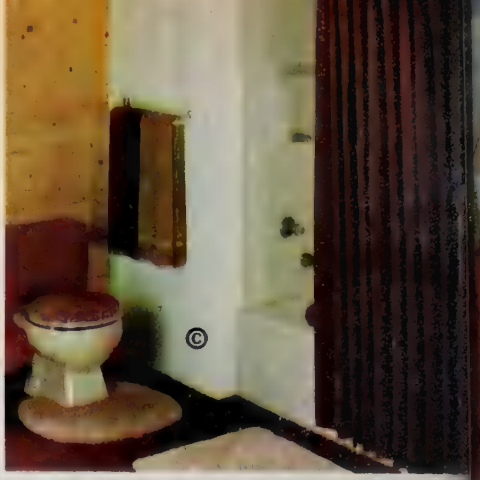
Terrific savings on Sears best-selling rug and shower curtain coordinates



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Ⓑ Save 20% on coordinating Colorburst 6 piece shower curtain sets

Semi-sheer polyester fabric in a rainbow of solid colors. Shower curtain and valance trimmed with billowy ruffles. Matching vinyl liner is treated with SANI•GARD to prolong freshness—wipes clean with a damp cloth. Reg. $19.99.

$15.99

© Save on our Matchmate shower curtain, too

Use this dual-purpose vinyl shower curtain alone or as a liner for fabric curtains. Three sealed magnets hold curtain to tub. Reg. $6.99.

$5.99

Items on this page available in other colors, at sale prices.

Sensational savings for your bedroom

Ⓐ Save 18%* on the Billow pillow

Sears best polyester-filled pillow. Fortrel 7" polyester fill won't lump or shift. Designed to be non-allergenic, odorless, mildew resistant and mothproof. Polyester and cotton cover. Machine wash, tumble dry. Choose soft or medium support. All sizes, now on sale.

$8.99 (Std. Size)

Ⓑ Save 18%* on Sears twin size fitted mattress pad

Perma-locked, Dura-Puff polyester fill won't shift. Top and skirt of 50% cotton and 50% polyester. Other sizes on sale, too.

$8.99

© Save 33%* on Dacron 808® filled pillow

Medium support, Dacron polyester, fiber-filled pillow. Designed to be non-allergenic and mothproof. Polyester and cotton cover.

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Ⓓ Save 20%* on feather pillow

Firm, natural-fill pillows with polyester and cotton cover. Three sizes, all sale priced.

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Ⓔ Save 22% on the twin size Prelude blanket

These 100% acrylic fiber blankets have a softly brushed surface that's gentle to the touch. Machine washable and designed to be mothproof. Reg. $8.99.

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Ⓕ Save $4 on Sears twin size Vel-lite blanket

This luxurious, cushiony blanket retains its velvety quality without pilling or matting, wash after wash. Reg. $19.99.

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All other sizes and colors of these blankets are on sale, too.

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'Round the house values in a blaze of colors and patterns

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Ⓐ Save 20% on Inheritance ruffle round curtains

PERMA-PREST® fabric for easy care. Polyester and cotton blend. Ruffled tiebacks included. Other sizes also on sale. Reg. $5.99.

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This smoothly woven blend of polyester and cotton is treated with a special soil-release finish—most oily and greasy stains wash right out. Reg. $10.99.

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Soft, chenille-like ribbed terry. In a selection of fresh, solid colors. Reg. $1.59 ea.

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colic back-yard corner *has red-and-white barn with a fenced-in yard for chickens, dogs, goat*

ER O. WHITELEY

en watches *as her eggs are removed through panel that opens to nest*

Pygmy goat *has his own door cut into larger paneled door in side wall*

OUNTRY LIVING

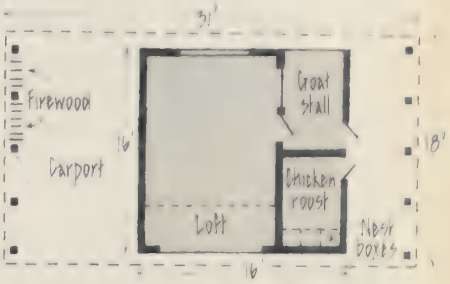
Hen-goat-storage barn, 16 by 16 feet

ow big does a barn need to be? Not ery big, if you use Ginny and Victor iets' compact one as a model. The plyood-sided barn sits on a 16- by 16-foot oncrete slab, but it holds a garage's orth of garden equipment that had owly squeezed out their cars. In addion, the Vietses needed a place to store e following conglomeration: a rotary ller, lawn furniture, a table saw, a acing car and its tow trailer, 10 eggroducing chickens and their feed, and a lack pygmy goat named Alex, who beeves he is part dog.

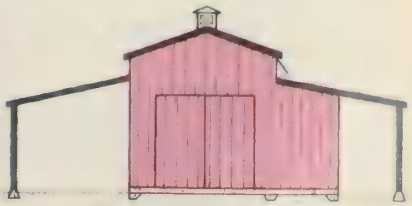
he Vietses designed and built their arn on weekends and evenings over ree months; cost was $2,000. The uilding is simply constructed: 2-by-4 stud walls, 16 inches on center, sheathed with ⅝-inch tongue-and-groove redwood plywood. For easier handling, the ridge beam was made from two 2 by 12's that were set in position separately, then bolted together.

Lightweight white corrugated aluminum roofing provides 558 square feet of coverage for the barn, a carport and woodstorage area on one side, and a protected stall area outside the chicken coop on the other.

At the peak of the 12-foot-tall barn is a small cupola made of four ready-made square vents. On exceptionally hot days, clerestories of 18- by 48-inch pieces of ⅛-inch plexiglass set in wood frames can swing out for additional cooling. □



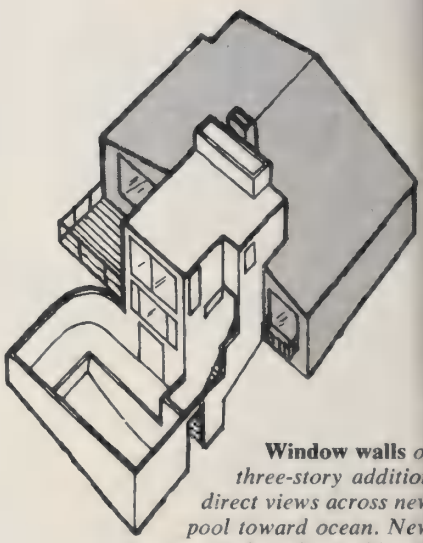
Floor plan *shows concrete slab (gray tone) and perimeter posts for roof. Loft above barn door is width of single sheet of plywood. Elevation (below) shows vented cupola at top*



GLENN CHRISTIANSEN

Shadow play *on angular stepped walls is from pines preserved in remodel. Floor-to-ceiling windows in new living room open to capture upslope breezes*

Bold flue *of new living room fireplace juts above pool-facing deck off family room*



Window walls *of three-story addition direct views across new pool toward ocean. New structure pokes above old roof to bring light into center of house*

New living room, new study, new deck, new pool ... three-story space gain

Neatly plugged in between the two wings of this ocean-facing hillside bungalow rises a three-story addition. Though compact, as you can see, it added 900 square feet of lofty living space, a big deck, and a 14- by 30-foot wall-enclosed pool.

Requirements of the steep site—and a desire to take full advantage of ocean views and big, view-framing trees—led La Jolla architect David Raphael Singer to build out from mid-house toward the street rather than from the wings.

The owner, Dr. Naomi Alazraki, had a simple U-shaped house with living room

Exposed-beam ceiling *over entry, living-dining room, and loft consists of 2-by-8 fir joists with cedar planking. View is to ocean*

the center. On one side were a family om and kitchen, on the other side a nall master bedroom and bath plus a naller bedroom with no direct access a bath. Down by the street was a small rage. Dr. Alazraki wanted a larger liv-g room with space for formal dining, study with ocean views and privacy ut not complete isolation), improved edrooms and baths, and a pool.

tepped downhill from the house's for-ier front wall, the addition provides a 5½- by 28½-foot living-dining room panned by a bridge-like study. The udy-bridge stays clear of the end walls, etting light enter the entire tall new pace from high clerestory windows bove the existing roof. More light omes through a floor-to-ceiling expanse f glass along the new living room's ront wall.

The old living room was converted into bedroom for Dr. Alazraki's two chil-lren and a hall-sitting area that connects o the new addition. The master bed-oom area was enlarged and updated.

Only at streetside could the site accom-nodate a pool. A 6-foot concrete wall affords privacy and wind protection. Singer replaced the old garage with a two-car parking court outside the new wall. A square opening identifies the way from the court to stairs leading to the front door. ◻

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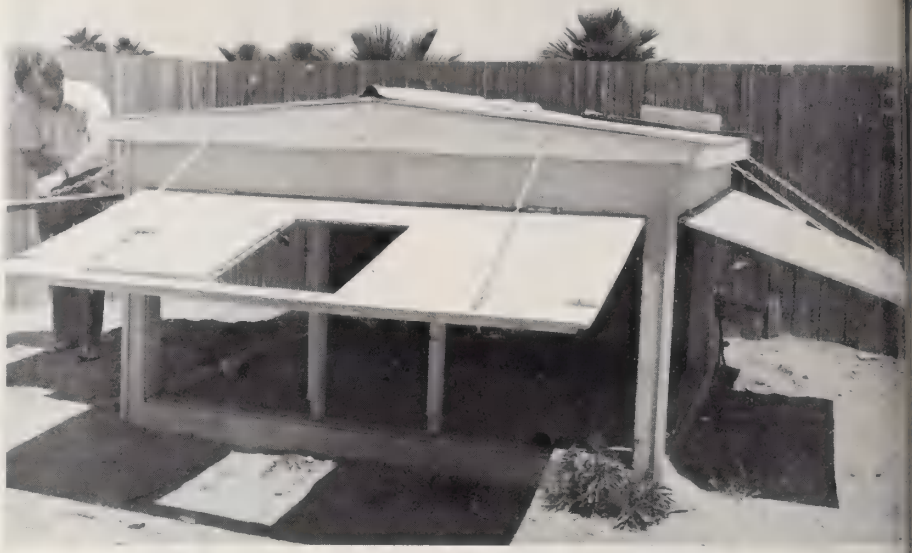


DON NORMAR

Swing-up panels summerize desert doghouse

Summers can be blisteringly hot, winters chillingly cold in Arizona. When Dick Curtis of Paradise Valley decided to design an outdoor shelter for his two standard poodles, he wanted one that would adapt to both extremes. His solution: this swing-walled doghouse.

Three walls are mounted to the structure's frame with large strap hinges. During summer months, the walls swing up and the doghouse becomes a shady veranda, open to cooling breezes. In winter, the panels drop down and latch snugly, keeping the warmth of the dog's body heat inside.

The slight pitch of the roof keeps rainwater from standing on the canines' cabin. Light-colored paint reflects heat.

A kit to help you design your own deck

Visualizing what a deck will look like, and planning where it will go and how to build it, can be difficult for do-it-yourselfers. The California Redwood Association has a useful kit which makes the project a little easier.

The kit contains a 20-page manual, complete plans and materials lists, punch-out deck patterns, and graph paper for site planning. You draw your house and garden onto the graph paper, then arrange the deck components.

To receive the kit, send $4 to Design-a-Deck, California Redwood Association, 1 Lombard St., San Francisco 94111.

PETER O. WHITELEY

Shaded spot with an open view

The dictionary defines a gazebo as a structure that affords "an extensive view of the surrounding landscape." The wooden shelter in Carol and Glenn Weyhrich's Boise garden certainly fits the description.

The gazebo rises from a 10- by 10-foot deck. The 4-by-4 posts that carry the roof load are stabilized by lag bolts into the joists under the deck and into the three-sided bench.

Landscape architect Greg Thomas of Sterling Associates extended the 2-by-8 rafters beyond the roof, cutting a gentle curve at the end of each for a quietly Oriental accent.

NORMAN A. PLATE

An 8-foot-long pop-out

A garden of potted succulents and cactus fits behind the sofa in this Colorado living room, after architect John Dengler of Fort Collins popped the 4- by 8-foot double-glazed window out about 16 inches.

To provide the depth needed by the three recessed lights, Dengler used 2 by 10's for the rafters.

Outside, the top and bottom framing projects from the wall at 45° angle.

Owners are Skeeter and John Cramer.

LES KLEBI

Bounce . . . glub . . . bounce . . . giggle . . . bounce

Bouncing on a bed is one of life's early irresistible urges. At an adventure playground at Beth El Preschool in Phoenix, children bounce on a water bed. Because the bed is sunk into the ground in an open, grassy area, no one falls far or hard. And when exhausted bouncers want to rest, their juggly trampoline makes a comfortable place to lie down.

Builder Ed Befort dug the hole slightly larger than the king-size bed's dimensions. He dropped a 2-by-12 redwood frame into the ground and put a few inches of sand in the bottom. Next came a water-bed liner, then a heavy-duty water-bed mattress (one with lap seams is best), which was filled full. (It has held up under the bouncing preschoolers, but it could be abused by larger kids.)

He wrapped the top edges of the frame with soft foam insulation designed to fit 2-inch-diameter pipe, then covered the whole mattress and frame with heavy waterproof canvas fastened to the outside of the frame with 1-by-2 nailing strips. The last step was to backfill soil against the outside of the frame.

Shallow planters fit under the eave

Three rough redwood planters break up this expanse of stucco wall. The planter frames are suspended by chains held into the eave by S-hooks and eye-hooks.

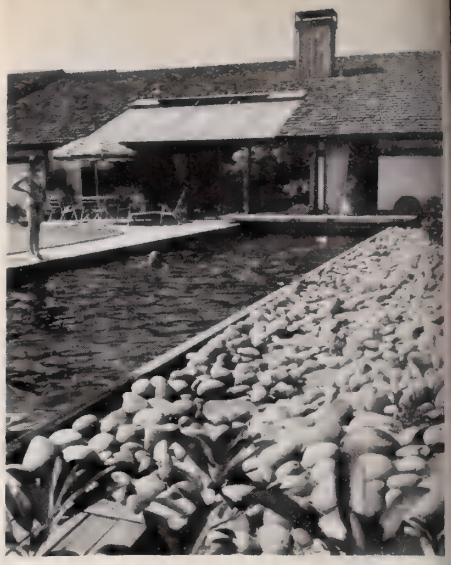
The planters' sides are 1 by 6's, the bottoms are 1 by 6's ripped to a width of 4 inches, and front and back pieces are 1 by 4's. The smaller planters measure 25 by 30 inches; the longer one, with a center section, is 25 by 57 inches.

Design was by Leanne and Peter Morris of Los Altos Hills, California.

STEVE W. MARLEY

DON NORMARK

Mylar roof panels *and cold-water inlet from outdoor pool help cool Fresno garden room*



Estuary *from narrow exercise pool enters garden room under 4-foot-wide bridge*

Cool in Fresno. The secret is a big garden room with an inlet from the pool

Glass-walled *bedroom can be opened to shady garden room, as can kitchen, dining, family, and guest rooms*

Fresno sizzles in summer. Yet architect L. Gene Zellmer of Zellmer Associates keeps his house comfortably cool with only occasional use of energy-costly air conditioning.

A lot of help comes from the design and orientation of the house itself: it's long and low, with a wide roof overhang shading windows and white stucco walls. In the center of its U-shaped floor plan is a garden room that works as a climate moderator in both summer and winter.

As seen from outdoors beside the 12- by 50-foot exercise pool (see photograph at upper right), this garden room's translucent fiberglass roof panels continue the line of the cedar-shake roof.

Inside, reflective Mylar cut to fit standard window-blind rollers pulls down from an overhead beam to block summer sun. An evaporative cooler helps to cool the air. The floor of exposed-aggregate concrete and a small inlet of cool water from the exercise pool also help keep temperatures down. Tubbed and hanging plants add freshness, and the space provides a restful, green outlook for all the rooms that open to it—dining room, kitchen, family room, master bedroom, and upstairs guest room.

After the sun goes down, the Zellmers open the house to cool evening breezes. It's closed and shaded again before the sun's heat strikes next morning.

The process is reversed in winter: with the outside doors closed and the blinds furled, winter sun quickly heats the garden room. Then the sliding glass doors to adjacent rooms are opened, and the sun's heat takes the chill off the rest of the house. □

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Ventilating your attic . . . among many energy-saving projects

Proper attic ventilation is a key to developing a truly comfortable, energy-efficient home. In a poorly vented attic, heat trapped on a hot summer day can reach 150°—either making the house uncomfortably warm or forcing an air conditioner to work overtime.

But a well-vented attic will keep excessive heat from building up in summer and help control humidity in winter. The costs are modest and the solutions virtually permanent.

A new *Sunset* book, *Do-It-Yourself Energy-Saving Projects* (Lane Publishing Co., Menlo Park, Calif., 1981; $3.95), describes two basic methods of attic ventilation. Power ventilation uses fans to push hot or moist air out through roof or gable vents. Natural ventilation uses vents that depend on wind pressure and thermal air movement.

Power ventilation: how big a fan do you need?

Attic fans are installed in an attic wall near the peak of a gable or directly in the roof as close to the peak as is structurally feasible. They can function efficiently with thermostat or humidistat controls. Though the hardware for attic fans costs more than natural venting, the fans usually require less structural work (fewer openings to be cut) and can be cheaper to install, particularly if you're having the work done by an outside contractor.

To determine the size of fan or number of vents you need, follow this general formula based on the number of square feet in your attic floor:

A ventilating fan should have the capacity to move 1½ to 2 cubic feet of air per minute (cfm) for each square foot of floor area. For example, if the floor area of your attic is 1,000 square feet, the fan should be capable of moving 1,500 to 2,000 cfm. At a ventilating rate of 1½ cfm (per square foot of floor space), attic temperatures on a hot day can be reduced about 20 percent. At 2 cfm, temperature reduction could be as much as 33 percent. (An airflow rate higher than 2 cfm will not produce significant additional temperature reductions.)

Natural ventilation: the placement of vents is critical

In a natural venting system, 1 square foot of clear vent space is required for every 150 to 250 square feet of attic floor area. Consider in your calculations any screens, louvers, or grillework placed over vent openings, as they reduce the flow of air (your building supplier may be able to tell you how much).

Gable vents. These work most effectively when the wind blows toward them. One in a gable wall away from wind can be coupled with soffit (undereave) vents, which bring in cool air at a lower point. More often there are two gable vents, one toward wind and one away.

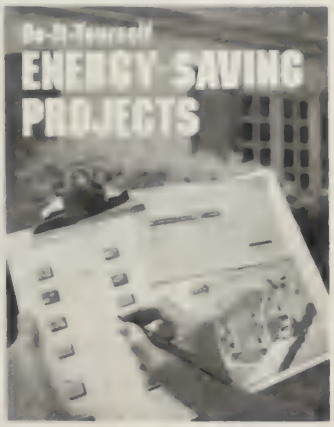
Gable vents do not require much carpentry. Since gable walls do not bear structural weight, cuts and framing are simple. Remember to cover the inner side of static vents with screening to keep out insects, rodents, and other unwanted small visitors.

Roof vents. Wind turbines are most effective where summer heat is accompanied by at least some breeze. The turbine's slotted, free-turning ball creates an ever stronger vacuum with increasing speed, and sucks out correspondingly greater volumes of air from the house. It is equally effective no matter which direction the wind blows. When it loses its vacuum effect in still air, it ventilates only by natural thermal action.

Lower-profile roof vents depend heavily on the fact that wind action creates a slight negative pressure on the downwind pitch of a roof. This boosts the conduction of heated air. As a result, such vents work best on a downwind pitch.

Both types must be combined with gable or soffit vents for air intake.

Ridge and soffit vents. Coupled with soffit vents, continuous ridge vents are the most effective natural system. Since they are directly at the ridge, hot air can continue to rise with or without a helping breeze. Their length produces even ventilation throughout the attic. □



New book *contains additional information on attic ventilation and a wide range of other energy-saving projects*

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DAVID STU

Adding *only 10 square feet to kitchen, triangular nook has two built-in seats and windows framing view of garden*

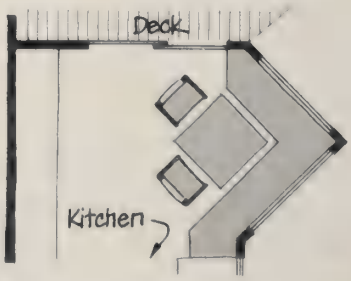
Breakfast nook . . . 10 square feet

A wedge-shaped pop-out in a corner of this remodeled Sacramento kitchen provided owners Jan and Buzz Wiesenfeld with a much-needed breakfast nook. Measuring just 56 inches on each projecting side, the triangular addition made room for a small table while allowing uninterrupted access to a new deck outside the kitchen.

An 18-inch-wide bench built in along the popped-out walls has a storage area below for little-used kitchen items. The lightly stained white oak of the bench matches the rest of the cabinetry.

On the lowered ceiling above the nook, redwood trim helps to separate the area visually from the rest of the kitchen. A rust-colored industrial light hanging from the high ceiling of the room is centered over the square table.

Architect Steven Goldstein of Environment Plus designed the remodel. ▫



Extended out *on posts and piers, nook allows easy access to deck*

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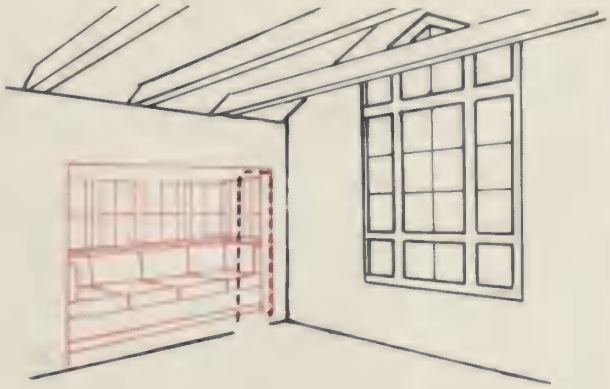
DAVID STUBBS

Roomy window-seat addition *brings light and comfort to previously barn-like room. It also wraps the big view around another compass point*

You can sleep in the new bay window



Original wall *was solid except for doorway indicated by dotted lines. Part of former 4-foot-wide porch became a generously proportioned window seat/bed*

A grand pentagonal window with a glorious view of San Francisco Bay dominates the living room of this 1931 house designed by Winfield Scott Wellington. But with only one source of daylight, the room resembled a large-mouthed cave. To balance the light and create an even more expansive view, architect-owner Marion Elliott designed the bed-size window bay shown above.

Because there already was a narrow, glassed-in porch along the north side of the house, constructing the bay was relatively simple.

The porch had been closed to the living room except for a small door. Elliott removed a 9-foot section of wall, built in the window seat, added an end wall, and dropped in a 6-foot ceiling. By carefully reusing the Alaska yellow cedar paneling from the old wall, she blended the remodel with the existing room.

Finally, all walls, which had darkened with age, were stripped back to their original pale yellow tone.

The window seat is higher and deeper than a conventional couch. It's a place to curl up amid pillows to talk or read. Or, with it's 8-inch-thick cotton-covered foam cushions making a comfortable mattress, it doubles as an extra bed for overnight guests. □

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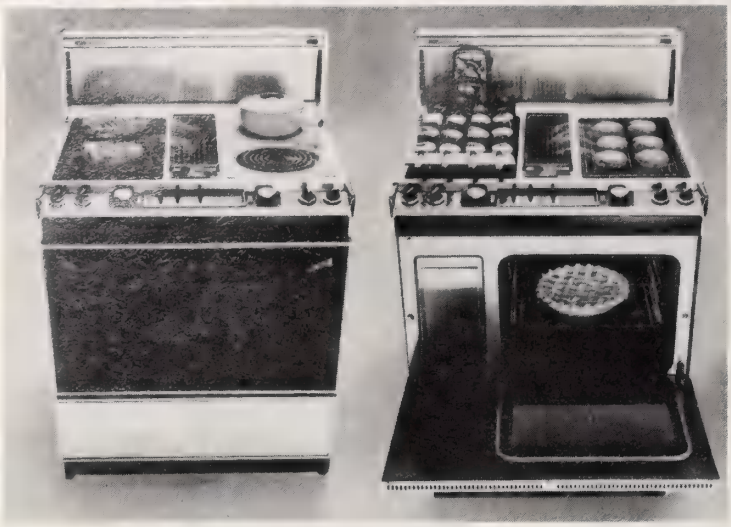

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DON NORMARK

Buffet-height cabinet *separates living and dining spaces, provides generous storage*

Divider is a two-sided buffet

Wide-open rooms with few partitions can make a house feel spacious. They work best when they have a swept-clean look. Here, a two-sided buffet and a distinctive light soffit help to reduce clutter while providing necessary storage and illumination.

The white-painted cabinet—it's 2½ feet wide, 5 feet long, and 3 feet high—was designed by architect Gerald Cichanski for his house near Issaquah, Washington. It fits between living and dining spaces and works from both sides.

On the dining side, it stores dishes and glasses; they're convenient to the table and also to the kitchen (by a pass-through in the wall). Its plastic laminate top also makes a useful buffet for informal dinner parties. On the living room side are a stereo system and records.

Notice the lighting in the dining area: clear bulbs screw into tracks mounted in a trough in the dropped ceiling, baffled from view on the living room side. With a dimmer switch, the light level can be regulated to suit the occasion. ▫

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JOSEPHINE COATSWORTH

Gable glazing *and window wall dramatize mountain view*

Before, it was just a cramped room

A superscaled dormer window transformed this previously undistinguished mountain cabin in Mill Valley, California, into a dramatic viewing platform: it fills the northeast wall of the living and dining area with an ever-changing mountain vista.

The room wasn't always so lofty. Originally, an 8-foot ceiling and a conventional 4- by 6-foot window cramped the outlook. San Francisco architect Karl Smith offered owner John Gladish a simple, strong solution: leave the floor plan alone and work with the view.

The architect popped the roof up over the central part of the 14- by 16-foot space to make a gigantic dormer 8 feet wide and 13 feet high. Glass reaches to its peak, flooding the room with light. Exposed rafters and slats repeat the grid of the window and add texture to the new sloped ceiling while drawing the eye up and emphasizing the height of the space. The window is not double-glazed, but 2½ inches of rigid roof insulation help conserve heat at night. □

DAVID STUBBS

Unremarkable entrance *gives no hint of visual drama beyond. Large dormer is at back, out of sight*

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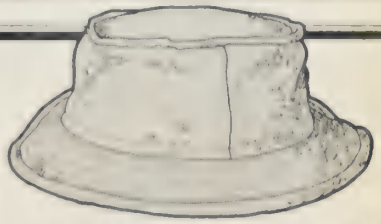

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House was blunt *and boxy before, as the picture at left shows. Airy lath addition helped reduce the massive look*

PETER O. WHITELEY

Lath arches make an outdoor room

An arcade of graceful arches softens the bulk of this two-story house in San Mateo, California. The lath structure frames views toward the pool and garden, shades the windows of the south-facing house wall, and creates a private sitting area off the dining room for protected outdoor entertaining.

Architect Alan Washatko designed the lathwork for owners Susan and Bob Highsmith. Because lath is so lightweight, the framing is simple: vertical 4-by-4 posts carry a gridwork of 2-by-6 ceiling joists on 2-foot centers. The lath panels fit between the posts or lie flat upon the overhead framing. Double pieces of 1-by-4 benderboard nailed to the inside faces of the posts create the curves of the arches.

Beneath the 12- by 12-foot sitting area and the narrower 4-foot-wide walkway is a pad of used bricks, which eases the transition to the back yard.

Sitting area *off dining room is used for morning coffee, poolside entertaining. Basket-weave brick pad was also added*

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Automatic Appliance, 37383 Fremont Blvd
Martin's Appliance, 44801 Fremont Blvd
Fresno
ALCO Services, 48 E Spruce Street
Bilsten's TV & Appliance, 4477 N Blackstone
Builder's Products, 3837 N Fine
D & R Appliance, 1504 N Maple
Fresno Distributors, 2055 E McKinley
Grass Valley Gra Neva, 112 Colfax Ave
Hayward
Automatic Amerit Appliance, 27822 Mission Blvd
Ralph's Appliance, 24975 Mission Blvd
Lodi
Ben's Electric, 1535 S Cherokee Lane
Miller's Millwork Mart, 730 California
Los Gatos
Los Gatos Appliance, 122 N Santa Cruz Ave
Marysville
SBS Building Supply, Inc, 1415 N Beale Rd
Menlo Park
Boucher's, 719 Santa Cruz Ave
Modesto P & G Appliance, 1021 McHenry
Mountain View
Boucher's, 690 Showers
Meyer Electric, 278 Castro
Oakland
C. Markus, 301 Jefferson
Oroville Raley's, Curriers Div, 2325 Myers
Pacific Grove
Peninsula Built-Ins, 2004 Sunset Dr
Palo Alto
Mackall's Appliance, 249 California Ave
Petaluma McPhail's, 1000 Lakeville Hwy
Placerville The House Shop, 320 Main St
Redding Jacob's Appliance, 3071 Bechelli Ln
Redwood City
Atherton Appl & Merch Mart, 3120 Middlefield Rd
Atherton Appliance Sales & Service, 122 5th Ave
Boucher's, 965 Brewster
Davies Appliance, 1580 El Camino Real
Sacramento
A & A Builder Supply, 6770 Folsom Blvd
Buckley's House of Built-Ins, 2442 Glendale Lane
Kitchens, Inc., 1617 18th St
Salinas
Salinas Valley Appliance & TV, 143 John St
San Francisco
Bob's Supply, 1665 Mission St
R. D. Schwalb Co., 1434 Howard St
Harry Young, 532 Columbus
San Jose
DaRosa Appliance, 1180 E Julian St
Miller's Home Appliance, 966 S Bascom
Western Appliance, 1976 W San Carlos
San Mateo
Culmer's Appliance, 123 W 25th Ave
R. Strait Appliance, 2240 S El Camino Real
San Pablo Dario's Appliance, 14253 San Pablo Ave
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Martin & Harris, 739 A St
McPhail's, 917 C St
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University Electric, 1391 Franklin
Santa Cruz
Haber's Furniture, 812 Pacific Ave
Santa Rosa
McPhail's, 7th & Mendocino
Scotts Valley
Nichols Appliance & TV, 230 Mt. Hermon Rd
Stockton
Mazzera Electric, 501 N Baker
Risso Electric, 1502 Palm
Sunnyvale Sunnyvale Hardware, 575 Sunnyvale Ave
Tulare
Canby's Inc., 1434 E Tulare
Gordon's Electric, 348 E King
Turlock
Youngdale's, Market off West Main St
Ukiah Appliance Center, 512 S State St
Vacaville Lloyd Chandler Furniture, 331 Main St
Visalia ADC Inc., 3826 Mooney Blvd
Ruddy's, 1411 S Mooney Blvd
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Contra Costa Appliance, 1100 Boulevard Way
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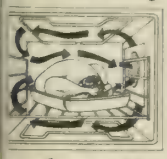

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THE FRESH-PICKED SALAD BAR... CALIFORNIA SUMMER FRUITS.

The California peaches, plums, nectarines and Bartlett pears are in season now. Enjoy them in special salads with KRAFT Red Wine Vinegar & Oil Dressing with natural burgundy wine flavor, and sweet and spicy Catalina French from KRAFT.

TOSSED SUMMER FRUIT SALAD

Combine 8 oz. bottle KRAFT Red Wine Vinegar and Oil Dressing, ¼ cup honey and 1 teaspoon allspice. Mix well. Pour dressing mixture over sliced California Summer Fruits. Cover, marinate in refrigerator 2 hours. Drain, reserving marinade. Combine fruit and assorted greens and toss lightly. Serve with reserved marinade.

FAR EAST SUMMER SALAD

Combine 1½ cups cooked rice, ½ cup chopped California nectarines, ¼ cup toasted slivered almonds and 1 tablespoon honey, mix well. Chill. Combine sliced California Summer Fruits and CATALINA French Dressing. Mix lightly. Spoon fruit into bowls, top with rice mixture. Serve with CATALINA French Dressing.

Kraft Salad Days are here

KRAFT

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CALIFORNIA SUMMER FRUITS

Hollow house

Big central courtyard catches the summer breezes

Summer temperatures soar in California's Central Valley. When San Francisco architect William Turnbull designed this house in Modesto, he incorporated two simple but important principles of passive solar design for hot climates: proper orientation to the sun and prevailing winds, and a way to filter the sun's rays.

Turnbull opened the center of the house to make what he calls an "inside-outside gazebo." The courtyard is open to the northeast and southwest to catch and tunnel cooling summer breezes.

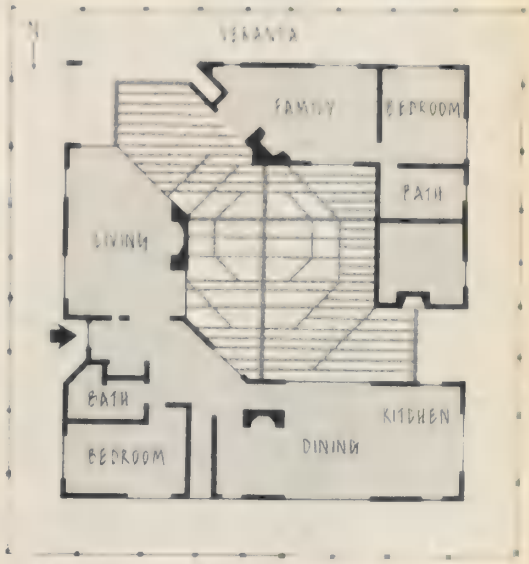
On the roof, a layer of rafters and 1-by-4 stripping screens out the sun; irregularly placed joists create changing shadow patterns on the brick paving below. Other shadows come from large box beams which intersect overhead, supporting the ridge of the gable.

Further shading for the house comes from a veranda all the way around it. Barn-like doors protect second-story windows from the heat of the afternoon sun. Owners Jean and Bill Allewelt report that the atrium averages 5° to 10° cooler than the exterior temperature. □

DARROW M. WATT

Changing patterns *of light play on brick floor of cool and shady open-air living room*

Big gable roof *opens up over atrium. Chimneys mark courtyard's boundaries*



Atrium cuts across *house for cross-ventilation in living areas; veranda all around shades lower story. Dark gray lines show rafters and box beams*

Sunset's Kitchen Cabinet®

During the summer, family meals are often planned around vacations or weekend activities. That makes it especially handy to have ideas for dishes that travel well or are easy to make away from home. Our recipe for poached eggs in chili is equally goo at home or in camp, and both h sauerkraut salad and spiral sandwi loaf are good picnic travelers.

For other meals this month, we'v cluded a fresh green bean dis

Softly poached eggs nestled in spicy chili are served atop toasted muffins

Chili and Poached Eggs

If you use an electric frying pan, you can prepare this brunch or supper entrée at the table or on the patio.

- 4 cups homemade chili or 1 can (30 oz.) chili con carne with beans
- 1 can (8 oz.) stewed tomatoes
- 1 can (7 oz.) green chili salsa
- 8 to 10 eggs
- Toasted English muffins, cornbread, or waffles
- About ¼ cup sliced green onions
- About ½ cup chopped tomatoes
- 1 cup shredded Cheddar cheese

In a wide frying pan over medium heat or in an electric frying pan set at 350°, stir together the chili, tomatoes, and green chili salsa. Cook uncove for about 10 minutes, stirring o sionally. Reduce the heat to lov keep the chili mixture at a ge simmer.

Carefully break the eggs into the c Cover and cook until eggs are softly set, about 8 to 10 minutes until done to your liking.

Spoon the eggs and chili over mufl cornbread, or waffles. Serve onions, tomatoes, and cheese in s bowls to pass at the table and sprin over individual servings as desi Makes 4 to 6 servings.—*V. E., Me Park, Calif.*

The sweet-tart flavor of this colorful sauerkraut salad goes well with meats

Overnight Sauerkraut Relish Salad

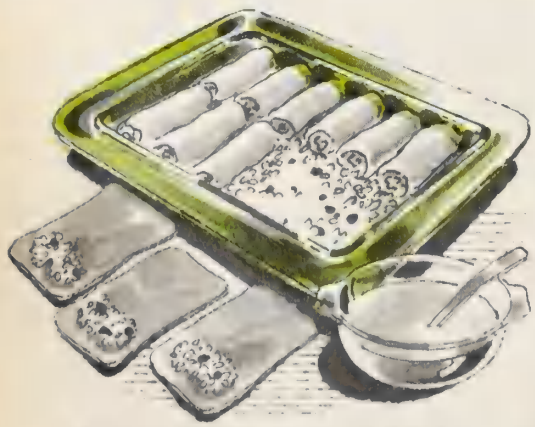
Make this sauerkraut salad up to 2 days ahead; it stays crisp and crunchy.

- 1 large can (27 oz.) sauerkraut
- 1 cup thinly sliced green onion (including some of the tops)
- 2 stalks celery, coarsely chopped
- 1 cup *each* shredded carrots and coarsely chopped green pepper
- 1 jar (4 oz.) diced pimiento, drained
- 1 teaspoon caraway seed
- ⅓ cup *each* salad oil and white vinegar
- ¼ cup sugar
- Salt and pepper to taste

Turn sauerkraut into a colander or wire strainer to drain. Taste; if too briny, rinse with cold water and drain well again. Turn into a bowl and the onion, celery, carrots, green p per, pimiento, and caraway. Mix w to blend.

In a small jar or bowl, combine oil, vinegar, and sugar. Stir or sha to dissolve sugar. Pour dressing o the sauerkraut mixture and toss blend well. Cover and refrigerate least 4 hours or up to 2 days.

To serve, toss salad again to mix, th season with salt and pepper. Spo into lettuce cups to serve as a sal or offer as a relish to top frankfurt or hamburgers. Serves 6 to 8.—*N. May, Idaho.*



Roll curried rice mixture inside ham slices for this make-ahead casserole

Curried Ham and Rice Rolls

For brunch, accompany this casserole with fresh melon or pineapple.

- 3 hard-cooked eggs, chopped
- ⅔ cup raisins
- 3 cups cooked rice
- 3 green onions, thinly sliced
- Salt and pepper to taste
- 3 tablespoons butter or margarine
- 1 teaspoon curry powder
- 2 tablespoons cornstarch
- 3 cups milk
- 3 packages (4 oz. *each*) cooked ham slices, each 6 inches long
- Chopped peanuts for garnish

Combine the eggs, raisins, rice, and onion; season with salt and pepper.

In a saucepan, melt the butter. Stir in the curry and cornstarch. Gradual add the milk and cook, stirring, un sauce boils and thickens. Add 1 cups of the sauce to the rice mixtu and stir to blend.

Spoon ⅔ of the rice mixture into greased 9- by 13-inch baking dis Divide remaining rice mixture b tween ham slices and roll to enclos Set ham rolls in baking dish, sea side down. Top with remaining sauc Cover and chill if made ahead.

Bake covered in a 350° oven until h through, about 25 minutes (allow 3 minutes if cold). Sprinkle with pe nuts. Serves 6.—*S. F., Spokane.*

serve hot or cold and a quick-to-make shortcake that complements all kinds of fresh summer fruits.

Send your original recipes to *Sunset Magazine*, Menlo Park, Calif. 94025. We pay $25 for each recipe published.

Chili at home or in camp, green beans hot or cold, easy shortcake

Sausage-and-Spinach Sandwich Loaf

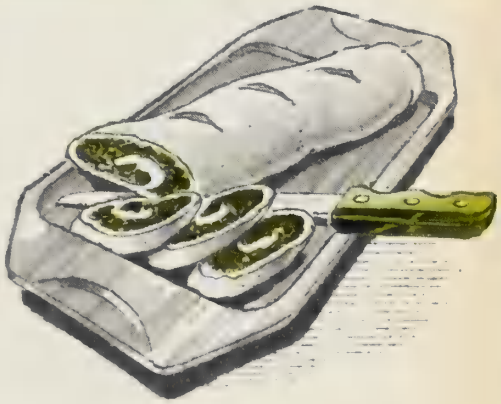
Cut into thick slices for lunch, this sandwich loaf is good hot or cooled.

- 1 loaf (1 lb.) frozen bread dough
- ¾ to 1 pound Italian sausages
- 1 large onion, chopped
- 1 package (10 oz.) frozen chopped spinach, thawed
- ¼ teaspoon crushed red pepper
- 1 can (2¼ oz.) sliced ripe olives, drained
- ⅔ cup grated Parmesan cheese
- Melted butter or margarine

Thaw bread dough as package directs. Meanwhile, remove sausage casings and crumble meat into a frying pan with the onion. Cook over medium heat until meat is browned and onion is limp; discard fat. Squeeze out spinach; stir spinach and pepper into pan.

On a floured board, roll dough into an 11- by 15-inch rectangle. Scatter meat mixture onto dough to within 1 inch of edges. Sprinkle with olives and cheese. Starting with a long side, roll up tightly; pinch ends and seams.

Place loaf seam side down on a greased baking sheet; tuck ends under. Brush with melted butter and slash top. Bake in a 350° oven until golden, about 35 minutes. Cut into thick slices. Makes 6 servings.—*S. T., Rio Rancho, N.M.*



A savory sausage-and-spinach filling is swirled through this sandwich loaf

Green Beans Vinaigrette

Let this green bean dish double as a salad or hot vegetable dish.

- 6 green onions (including tops), chopped
- 1 clove garlic, minced or pressed
- ⅓ cup salad oil
- 3 tablespoons lemon juice
- 1 teaspoon *each* salt, sugar, and dry mustard
- ¼ teaspoon *each* dry basil, oregano, and marjoram leaves, and pepper
- 2 pounds green beans
- Chopped tomato

For the dressing, mix together the onions, garlic, oil, lemon juice, salt, sugar, mustard, basil, oregano, marjoram, and pepper; set aside.

Meanwhile, wash beans and snap ends. Arrange on a steamer rack. Cover and steam over boiling water until tender crisp, about 10 minutes.

To serve hot, drain beans and turn into a rimmed serving dish; pour dressing over all. To serve cold, immediately plunge beans into cold water; drain well, turn into a shallow bowl, and pour on dressing. Cover and chill, stirring several times, at least 2 hours or overnight.

Garnish by sprinkling with chopped tomatoes before serving. Makes 4 to 6 servings.—*R. B. Sandy, Utah.*

Fresh green beans, lightly steamed, are bathed in an herbed vinaigrette

All Summer Shortcake

Serve this easy shortcake all summer long with whipped cream and berries, apricots, or peaches.

- 2 eggs
- 1 cup sugar
- 1 teaspoon grated orange peel
- ½ teaspoon orange extract or vanilla
- ½ cup milk
- 1 tablespoon butter or margarine
- 1 cup all-purpose flour
- 1 teaspoon baking powder
- ¼ teaspoon *each* salt and ground nutmeg

Cut a piece of waxed paper to fit the bottom of an 8-inch-square baking pan. Grease pan sides and paper.

With a mixer, beat together the eggs, sugar, peel, and extract until very light and fluffy. In a small saucepan, heat the milk and butter until hot, then stir into the egg mixture. In a bowl, stir together the flour, baking powder, salt, and nutmeg; then add to the batter and stir to blend well. Pour batter into prepared pan.

Bake cake in a 350° oven until center springs back when touched, about 30 minutes. Cool in pan on a rack for 5 minutes, then run a knife around sides to loosen. Turn out onto rack to cool completely; peel off paper. Serves 4. —*J. B., Durango, Colo.* □

Split shortcake in half and fill with whipped cream; top with fresh fruits

DAVID STUBBS

Szechuan seasonings *wake up salad of vermicelli, marinated pork, egg, and cucumber. Just before serving, it's tossed with a soy-and-sesame dressing*

Oriental supper salads: Korean is beef. Szechuan is pork and noodles

The extra interest of Oriental flavor combinations gives these make-ahead supper salads a special appeal for relaxed summer entertaining.

Choose from the rich, spicy flavors of northern China or Korea. Both salads are bountiful in color and textural contrasts, and both can be attractively presented; mix with dressing just before serving.

Look for the sesame oil and hot chili oil for seasoning the dressings in the Oriental section of your grocery store. Or use the suggested alternatives.

Korean Beef Salad

- 1½ pounds boneless beef top round, cut ½ to ¾ inch thick
- 2 tablespoons soy sauce
- 2 teaspoons *each* sugar and sherry
- About 4 tablespoons salad oil
- 4 green onions with tops, sliced
- ¾ head iceberg lettuce, shredded
- 2 small onions, thinly sliced
- 1 basket cherry tomatoes, halved
- ½ pound fresh mushrooms, sliced
- Spicy chili dressing (recipe follows)

Partially freeze beef so it will be easier to slice. Cut beef across the grain into ⅛- by 1½-inch strips. In a bowl, stir together soy sauce, sugar, and sherry. Mix in beef; marinate 30 to 60 minutes, stirring once.

Heat 2 tablespoons of the oil in a large frying pan over high heat. When the oil is hot but not smoking, add ⅓ of the beef strips. Stir-fry just until the pink color disappears, about 1 minute; remove from pan. Repeat the procedure twice with the remaining beef strips, adding 1 tablespoon oil each time, if needed. Combine beef with green onion and set aside.

Spread lettuce in a large, shallow bowl. Over the lettuce, arrange the beef, onions, tomatoes, and mushrooms. Chill, covered, up to 10 hours. At the table, drizzle with dressing and toss. Makes 6 to 8 servings.

Spicy chili dressing. Stir together ⅓ cup soy sauce; ½ cup white wine vinegar; 2 cloves garlic, minced; 1½ teaspoons minced fresh ginger; 1 teaspoon hot chili oil (or ¼ teaspoon cayenne); and 2 teaspoons sesame oil (or in a small frying pan over medium heat, stir 1 tablespoon sesame seed in 2 tablespoons salad oil until golden).

Szechuan Pork and Noodle Salad

- 1¾ pounds pork shoulder blade steaks or 1¼ pounds boneless pork loin chops
- 1 tablespoon *each* soy sauce and sherry
- 1 teaspoon *each* sugar and catsup
- About 5 tablespoons salad oil
- 3 ounces vermicelli, broken into 2-inch lengths
- 6 eggs
- 2 cucumbers (peeled, if desired)
- ½ medium-size head green cabbage, finely shredded
- Sesame dressing (recipe follows)

Partially freeze pork so it will be easier to slice. Remove bone, if any, and trim away fat. Slice ¼ inch thick, then cut into ¼- by 1¼-inch strips. In a bowl stir together the soy sauce, sherry, sugar and catsup. Mix in pork; marinate 30 to 60 minutes, stirring once.

Heat 2 tablespoons of the oil in a large frying pan over high heat. When the oil is hot but not smoking, add ⅓ of the pork strips. Stir-fry just until the pink color disappears, about 2 minutes; remove from pan. Repeat the procedure twice with the remaining pork strips, adding about 1 tablespoon oil to pan each time, if needed. Set pork aside.

Cook the vermicelli according to package directions. Drain in a colander and run cold water over it to cool it quickly; drain again. Turn into a bowl and mix in 1 teaspoon of the oil; set aside.

Beat together 3 of the eggs. Heat 2 teaspoons of the oil in a 10-inch frying pan over medium heat. Pour in the eggs, tilting the pan quickly to spread it evenly in a thin layer. Cover and cook for about 2 minutes or until eggs are set. Slide out of the pan onto a cutting board. Repeat, beating and cooking remaining 3 eggs. Cut omelets into strips about ⅛ inch wide and 2 inches long; set aside.

Cut each cucumber crosswise into thirds, then lengthwise into quarters; discard pulp and seeds. Slice into thin, lengthwise strips. Spread cabbage in a large, shallow bowl. Over the cabbage arrange the vermicelli, pork, egg, and cucumber. Chill, covered, up to 10 hours. At the table, drizzle with dressing and toss. Serves 6 to 8.

Sesame dressing. Stir together until well blended 6 tablespoons white wine vinegar, 5 tablespoons soy sauce, 2 teaspoons *each* dry mustard and sugar, and 2 tablespoons sesame oil (or in a small frying pan over medium heat, stir 1 tablespoon sesame seed in 2 tablespoons salad oil until golden). □

YOU ALWAYS HAD A GOOD FEELING ABOUT SOUP. AFTER YOU READ THIS YOU'LL KNOW WHY.

Soup makes you feel good so many ways. It's the wholesome od that satisfies your appetite nd your spirit.

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In another way of rating soup, based on U.S. Department of Agriculture data, one 10 ounce serving of Campbell's **Old Fashioned Vegetable Soup has more Vitamin A than 2 heads of lettuce, 12 ears of corn, or four tomatoes.**

And soup is not only good for your body. It's good for your soul. When you come home from a hard day all frazzled, a heart-warming cup of zesty Minestrone can really unwind you. Because what could be more soothing than soup?

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So you can see, there's a good reason for the good feeling you get with soup. One of the many reasons why Soup is Good Food.

Campbell's

SOUP IS GOOD FOOD.

*As published in The American Journal of Clinical Nutrition, April 1981

**Source: Hansen, R.G., Wyse, B.W., Sorenson, A.W., The Nutritional Quality Index of Foods, AVI Publishing Co., Inc., Westport, Conn. 1979

Note—Mean value sources for nutrient comparison: USDA Handbooks No. 8 and 456 and Campbell Soup Co.

DARROW M. WATT

Whole berries *garnish fresh fruit ice flavored with lemon and cinnamon*

Simple luncheon salad *combines strips of ham, sliced melon, and blueberries. Tangy yogurt dressing has a hint of curry*

Any excuse for blueberries . . . salad, blue ice, or pie

July marks the peak of the blueberry harvest along the Northwest coast from Oregon to British Columbia, so now is the time to pick up several cartons of these delicate berries. Here we offer three recipes that enhance the fresh berries' distinctive color and flavor.

When shopping, choose firm, plump blueberries with a light grayish bloom and blue color. Avoid cartons with stained bottoms—these indicate berries that are overripe or moldy. Chill fresh berries, unwashed, for up to two weeks. For longer storage, wrap carton of berries well and freeze; rinse briefly just before using.

Blueberry, Honeydew, and Ham Salad

Lemon-curry dressing (recipe follows)
1 medium-size ripe honeydew melon, chilled
¾ pound boiled ham, cut into julienne strips
2 cups blueberries

Prepare dressing and set aside.

Peel melon and cut into thin wedges; cut each wedge in half.

Arrange melon pieces and ham strips on 8 salad plates and drizzle with the dressing. Top each with about ¼ cup blueberries. Serves 8.

Lemon-curry dressing. Stir together 1 carton (8 oz.) unflavored yogurt and ½ teaspoon *each* curry powder and grated lemon peel; add pepper or liquid hot pepper seasoning to taste.

Blueberry Ice

About 4 cups blueberries
1¼ cups *each* water and sugar
3 tablespoons lemon juice
Dash *each* salt and ground cinnamon
3 egg whites, at room temperature

Rinse 3 cups of the blueberries and drain. Whirl in a blender until smooth; then add water, sugar, lemon juice, salt, and cinnamon and whirl to blend. Pour into an ungreased 9-inch-square pan and freeze, uncovered, for 2 to 3 hours or just until solid; remove from freezer.

In a small bowl, beat egg whites until they form soft, moist peaks.

Break up blueberry mixture with a spoon and transfer to the large bowl of an electric mixer. Beat, starting at slow speed and gradually increasing to high, until smooth and light colored. Beat in about ¼ of the egg whites; then gently fold in remaining whites.

Cover and freeze ice until ready to serve. Garnish individual servings with remaining berries. Serves 8.

No-bake Blueberry Pie

4 cups blueberries
1 baked 9-inch pie shell
¾ cup sugar
2½ tablespoons cornstarch
2 tablespoons *each* water and lemon juice
½ teaspoon ground cinnamon
Whipped cream

Set aside 1 cup of the blueberries and fill pie shell with remaining berries.

In a pan, crush the 1 cup berries and stir in sugar; set over medium heat, stirring until sugar dissolves. Meanwhile, stir cornstarch into water and lemon juice until smooth; add to berry mixture along with cinnamon. Cook, stirring, until mixture boils and thickens; spoon over berries in pie shell. Chill 1 to 24 hours.

Top wedges with whipped cream. Serves about 6.—*B. C., Spokane, Wash.*

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DARROW M. WATT

ood on toast: *plump, ripe tomatoes ooked with spices and tangy citrus ake a deliciously different preserve*

Tomatoes on toast . . . preserves

aced with lemon and spices, these ibtly sweet tomato preserves make a isty companion to homemade biscuits, ot breads, muffins, or toast.

omato Preserves

- 5 to 6 pounds (about 11 large) ripe tomatoes
- 4 to 6 cinnamon sticks, *each* about 1½ inches long
- 6 whole allspice
- 10 whole cloves
- ½- by 1-inch piece fresh, peeled ginger
- 3 whole lemons
- 6 cups sugar
- ½ teaspoon butter or margarine

eel, core, and dice tomatoes, reserving iices. Turn tomatoes and juices into a -quart kettle. Add the cinnamon sticks; e allspice, cloves, and ginger in a piece f cheesecloth and add to the kettle. Cook, uncovered, over medium heat ntil reduced by a third, about 30 min-tes; stir frequently.

Cut ends from lemons, then cut in half ngthwise. Slice halves crosswise into hin pieces (discard seeds). Add the lem-ns, sugar, and butter to the tomato ixture. Cook, stirring frequently, until ugar is dissolved. Increase heat to me-ium-high and cook, stirring often, until educed to 4 pints, about 40 minutes. Discard wrapped spices. Leave cinna-non sticks in preserves, if desired.

Ladle hot preserves into hot, sterilized anning jars. Run a rubber spatula or lunt knife down between food and jar o release air bubbles. Wipe rims clean; lace on scalded lids and screw on bands Let jars cool completely on a dry cloth n a draft-free area, then test for a good eal before storing in a cool, dry place. Makes about 4 pints. □

Sunset Western Grocery Directory

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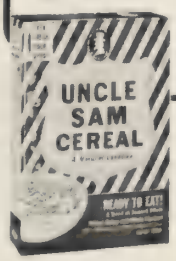

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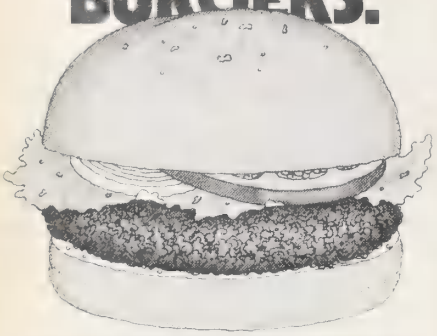

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S&B SUN-BIRD

Roll *meat filling in cottage cheese dough for speedy picnic log*

DARROW M. WATT

Bite by bite, *hearty meat-filled pastry makes a savory treat*

Picnic logs...rolled-up pastry, meat

Reminiscent of Cornish pasties, these pastry logs filled with beef, pork, or chicken are perfect summertime fare. Serve them cold for picnics or tucked into lunch boxes. Or offer them warm from the oven for a family supper. Cut into bite-size pieces, they also make tasty hot hors d'oeuvres.

You can fill and shape the rolls a day ahead, then chill them for last-minute baking. Or cook them ahead to keep in the refrigerator or freezer for an impromptu outing.

Picnic Pastry Logs

- 1¼ cups all-purpose flour
- ½ cup (¼ lb.) butter or margarine
- ½ cup small-curd cottage cheese
- Corned beef, pork, or chicken filling (recipes follow)
- 2 egg yolks, lightly beaten

Place flour in a large bowl; with a pastry blender, cut in butter until mixture resembles coarse cornmeal. With a fork, stir in cottage cheese, blending until dough forms a moist ball. Turn out onto a lightly floured board and knead for 1 minute.

Roll dough thinly into a 14- by 18-inch rectangle—it should be about ⅛ inch thick. With a sharp knife, cut rectangle in half lengthwise; divide each half crosswise into thirds. Working with 1 rectangle of dough at a time, spoon about ⅓ cup of the filling along a long edge. With your hands, loosely roll dough over filling to form log as shown above; repeat with remaining dough. Place logs about 1 inch apart on a greased cooky sheet. (At this point, you can cover lightly and chill up to 24 hours.)

Just before baking, brush beaten egg yolks lightly over logs. Bake, uncovered, in a 350° oven for 20 to 25 minutes or until golden (if chilled, allow 25 to 30 minutes). Cool slightly on wire racks and serve warm or at room temperature.

Or cool completely, then wrap tightly in foil and store in the refrigerator (for up to 2 days) or freeze. If you wish to serve logs hot, thaw if frozen, and bake uncovered in a 325° oven for 15 to 20 minutes or until heated through. Makes 6 logs.—*R. M., Truckee, Calif.*

Corned beef filling. Peel 1 small thin-skinned potato and steam over boiling water until tender when pierced with a fork, about 20 minutes. Dice finely and place in a bowl. Add 1 can (7 oz.) corned beef, finely diced; ½ cup *each* coarsely chopped onion and celery; 1 teaspoon *each* prepared mustard and Worcestershire; ½ teaspoon salt; ¼ to ½ teaspoon prepared horseradish; ⅛ teaspoon pepper; ¼ cup chopped parsley; and 1 egg. Mix until all ingredients are thoroughly blended.

Pork filling. Crumble ½ pound ground pork into a frying pan over medium heat; cook, stirring, until browned. Add 1 small onion, chopped; cook, stirring, until tender, about 5 minutes. Remove meat and onion from pan and drain on paper towels; discard drippings. In a bowl, combine the pork; onions; 1 tart apple, peeled and coarsely shredded; ⅛ teaspoon ground cinnamon; ¼ teaspoon *each* thyme leaves and salt; dash of pepper; ¼ cup chopped walnuts; and 1 egg. Mix until all ingredients are thoroughly blended.

Chicken filling. In a bowl, combine 2 cups cooked chicken, finely chopped; 6 slices bacon, cooked, drained, and crumbled; ¾ cup coarsely shredded sharp Cheddar cheese; ⅓ cup chopped green onion; ½ teaspoon garlic salt; ¼ teaspoon ground ginger; 1 teaspoon Dijon mustard; ⅓ cup mayonnaise; and 1 egg. Mix until all ingredients are thoroughly blended. □

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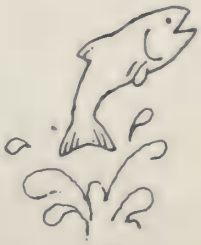
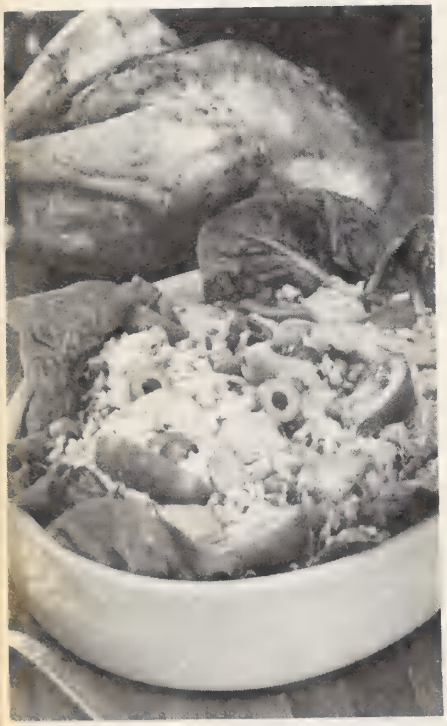


Chunky taco salad and flank steak

Cut a small head of iceberg lettuce into ¾-inch chunks. Combine in bowl with ¼ cup sliced green onion and 2 cups coarsely crushed taco chips. Top with 1 can (15 oz.) kidney beans (drained) and ½ cup each julienne strips of Cheddar cheese and pitted ripe olives (halved). Edge with lettuce leaves, then garnish with 1 tomato (cut in wedges), 1 avocado (sliced), and cilantro leaves (optional).

For the dressing, mix ½ cup salad oil, ⅓ cup red wine vinegar, 1 teaspoon chili powder, ½ teaspoon garlic salt, ⅛ teaspoon each ground cumin and crushed red pepper. Set aside ⅓ cup for marinade. Stir 1 can (7 oz.) green chili salsa into remaining dressing. Serve dressing and additional taco chips alongside



Spanish paella salad with spit chicken

Cook 1 cup long-grain white rice as package directs, adding ½ teaspoon turmeric to water.

For dressing, combine ⅓ cup salad oil, 3 tablespoons white vinegar, 2 green onions (chopped), 2 tablespoons chopped pimiento, 1 tablespoon capers. Pour over rice; season with salt and pepper. Cover and chill at least 6 hours.

To serve, stir in 1 cup peas, ½ cup sliced pimiento-stuffed olives, 1 or 2 jars (6 oz. each) marinated artichoke hearts (save marinade for chicken), and 1 tomato cut in wedges

GLENN CHRISTIANSEN

White bean salad with mixed sausage grill

Cook 1 pound small white beans as package directs until tender; drain well. For dressing, mix 2 tablespoons white vinegar, 1 tablespoon Dijon mustard, and 4 drops liquid hot pepper seasoning. Whisking with a wire whip, slowly add ⅓ cup salad oil. In a large bowl, combine cooked beans with 2 tablespoons chopped fresh basil (or 2 teaspoons dry basil), 1½ teaspoons chopped mint leaves, 3 tablespoons each chopped parsley and green onion, and ½ teaspoon finely minced garlic. Stir in dressing; season with salt and pepper. Cover and chill at least 6 hours. To serve, add cherry tomatoes (halved) and garnish with mint

Main-event salads

In these three handsome outdoor meals, salads team up with barbecued meat...and steal the show

alads just naturally belong with barbe-ued meats. Too often, though, more at-ntion is paid to the meat than to the lad. That's not the case in these three andsome barbecue meals. Each is cen-red around a distinctive salad, with e grilled meat as complement.

he first menu combines elements of a co in a chunky salad; slices of barbe-ued flank steak are served alongside. he second menu does a switch on a panish classic: here paella is presented s a chilled salad and accompanied with it-roasted chicken (or barbecued icken parts).

hird, we bathe white beans and cherry matoes in a fresh herb-mustard dress-g, then team the salad with juicy rilled sausages.

oth the paella and bean salads need to e made ahead to marinate. The taco lad can be assembled ahead and illed, then garnished with sliced avo-ado just before serving.

Grilled Flank Steak Olé. Pour the reserved ⅓ cup dressing (see Chunky Taco Salad) over a 1½- to 2-pound flank steak. Cover and marinate at room temperature at least 2 hours; or cover and chill overnight.

To cook, lift meat from marinade and place on a greased grill 4 to 6 inches above a bed of low-glowing coals. Cook, turning once, for 5 to 7 minutes on each side (for medium-rare) or to taste.

To serve, cut steak across grain into thin, slanting slices. Accompany with Chunky Taco Salad. Serves 4 to 6.

Spit-roasted Herbed Chicken. To the reserved artichoke marinade (see Spanish Paella Salad) add 1 tablespoon lemon juice and ¼ teaspoon *each* rosemary and thyme leaves. Rinse a 3- to 3½-pound broiler-fryer chicken, pat dry, and sprinkle with garlic salt. Center chicken on a spit and secure with spit forks.

Arrange enough glowing coals to form a solid rectangular bed about 6 inches across and extending 3 to 4 inches beyond ends of chicken. Coals should be about 2 inches behind an imaginary wall extending from spit to firebed. Place a metal drip pan directly beneath and in front of spit, and position spit on barbecue so chicken is 5 inches above coals. Start motor.

As chicken cooks, brush frequently with herb mixture. Bird is done when a meat thermometer inserted in the thigh (not touching bone) registers 180° to 185°, about 80 to 90 minutes.

Accompany with Spanish Paella Salad. Serves 4 to 6.

Mixed Sausage Grill. You'll need 2½ to 3 pounds of sausages—use kielbasa, garlic knackwurst, bratwurst or bockwurst, or plump frankfurters. Place on a lightly greased grill about 4 to 6 inches above low-glowing coals. Cook, turning often, until heated through, about 10 minutes.

Accompany with White Bean Salad. Serves 6. □

Romance is where you find it. The West Indies, Orinda, okra

While living in a remote, mountainous area of the West Indies, Donald Bain and his wife developed a recipe composed of hibiscus, love apples, and rare spice. Now they have moved to Orinda, California, where they still prepare the dish, but it has suffered a sea change.

The heady stuff that once they supped by the light of a flickering lamp while southern hurricanes tore at the forest around them has become simply curried okra with tomatoes. Perhaps this is a clue to the troubles of our society. Where has the romance gone? Is the next step TV dinners?

Well, romance is where you find it. Okra is a West African word, derived from *nkru-ma*, and might well call up visions of humid Gold Coast nights if you care to let it do so. If not, then use its other name, *gumbo*, and dream of Mardi Gras and Cajun swamps.

Whichever name or reverie you choose, the pointed green pods of *Hibiscus esculentus* are excellent fare in Mr. Bain's mixture. The stickiness that some persons dislike seems less important when you leave the okra whole.

Curried Okra

- 2 tablespoons salad oil
- 1 medium-size onion, chopped
- 4 to 6 teaspoons curry powder
- 1 pound lean ground beef
- 1 can (1 lb. 12 oz.) tomatoes
- 1½ pounds okra, or 2 packages (10 oz. *each*) frozen okra
- Salt and pepper
- Hot cooked rice
- Condiments (suggestions follow)

Heat oil in a wide frying pan over medium heat; add onion and cook until limp, then stir in curry powder and cook 2 to 3 minutes longer. Add the beef and cook until crumbly, then add the tomatoes (break up with a spoon) and their liquid.

Rinse okra and trim off stem ends; st into beef mixture. (Or separate froze okra and add to beef.) Bring to a bo cover, and reduce heat. Simmer for 3 minutes (20 minutes if you use froze okra) or until okra is tender to bite. Se son to taste with salt and pepper.

To serve, spoon okra mixture over h cooked rice. Pass a choice of cond ments, each in a separate bowl, to spri kle over individual portions. Makes 4 6 servings.

Condiments: Try unflavored yogu shredded coconut, raisins, salted peanut chopped Major Grey's chutney, ar chopped hard-cooked egg.

Orinda, Calif.

The Bible deals quite frequently in gene alogies, from the generations of Adam i *Genesis* to those of David in St. Ma thew's gospel. These lists contain wor ders that fix the attention, so we all kno that Methuselah lived 900 years (969, t be exact), even though his name appea only fleetingly.

There is a fascination in lists of descen whether we are told that Aeneas founde the Roman line or that Kunta Kinte pre ceded Alex Haley. Now the *Chefs of th West* can boast in its tiny way of a line o descent. We are told by the man wh knows, Frederic S. Crump, that Ells worth's Chili-Cheese Bake (in the Janu ary 1981 *Sunset*) begat Aunt Sallie' Chili Grits. May each of these surviv many years and beget further recipes.

Aunt Sallie's Chili Grits

- 6 cups water
- 1 teaspoon salt
- 1¾ cups quick-cooking hominy grits
- 4 cups (1 lb.) shredded sharp Cheddar cheese
- ¼ cup butter or margarine
- 1 can (7 oz.) diced green chilies
- 4 eggs, slightly beaten

In a 4-quart pan, bring water and salt to a boil; stir in grits, cover, reduce heat to low, and cook for 4 to 5 minutes, stirring occasionally. Remove from heat and stir in the cheese, butter, chilies, and eggs. Spoon mixture into a greased 9- by 13-inch baking pan.

Bake, uncovered, in a 325° oven for 1 hour or until set in center when lightly touched. Let stand 10 minutes before serving. Makes 12 to 15 servings.

Lakeport, Calif.

Some chefs aver that there are only two really great culinary traditions in the world, the French and the Chinese. These two peoples, perched on the edges of their respective continents, have other

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things in common as well. Each has a troubled but close relationship with the inhabitants of an offshore island; each has a language so subtle and profound that surrounding peoples have ended up borrowing a good bit of it (even distant neighbors: gung ho, ping-pong); and each entertains the view that outlanders are barbarians who don't really know anything about anything.

Walter Soh of Honolulu gives us a typical example of Chinese cuisine. There are nuances that you will have to taste to know, but notice especially the contrast of crusty chicken and smooth sauce.

Deep-fried Chicken with Lemon

- 1 whole chicken breast, boned, skinned, and cut in bite-size pieces
- ½ teaspoon salt
- 1 egg white
- 2½ tablespoons cornstarch
- Salad oil for frying
- ¼ teaspoon grated lemon peel
- 2 tablespoons lemon juice
- 2 tablespoons sugar
- 1 tablespoon *each* Worcestershire and catsup
- ¾ cup regular-strength chicken broth
- Tomato wedges
- Cucumber slices
- Lemon slices

Place chicken in a small bowl; add ¼ teaspoon of the salt, the egg white, and 1½ tablespoons of the cornstarch. Mix to coat chicken evenly. In a wok or deep pan, heat about 2 inches salad oil to 375°. Add chicken pieces, a few at a time, and fry until golden brown on all sides (about 3 minutes) and meat is no longer pink throughout. Lift out, drain on paper towels, and keep warm.

In a small pan, combine lemon peel, lemon juice, sugar, Worcestershire, catsup, broth, the remaining ¼ teaspoon salt, and the remaining 1 tablespoon cornstarch. Cook over medium heat, stirring, until bubbly and thickened. Arrange chicken on a serving platter, pour sauce over top, and garnish with tomato, cucumber, and lemon slices. Makes 2 servings.

Walter Ray Soh
Honolulu

Why not barbecue some ribs? Everyone likes them—the sticky fingers, the sauce on the chin—crusty and delicious.

Hal Arnason in Bellingham, Washington, makes up an interesting rib baste, one of 2,600,000 currently in existence. Mr. Arnason's version tops them all (as do most of the others while you are actually eating).

The fact is, in a field where it's hard to go too wrong, Mr. Arnason goes ve right and gives us Plum Good Spareri

Plum Good Spareribs

- 1 can (about 1 lb.) purple plums
- ⅔ cup orange juice
- ¼ cup *each* lemon juice, soy sauce, tomato-based chili sauce, and orange marmalade
- 2 tablespoons packed brown sugar
- 1 tablespoon Dijon mustard
- ½ teaspoon *each* grated orange peel and lemon peel
- ½ teaspoon *each* dry rosemary, ground cloves, and ground ginger
- 1 tablespoon instant minced onion
- 6 to 7 pounds spareribs
- Boiling, salted water

Drain plums, reserving the syrup. F plums and put into a blender with th reserved syrup. Whirl until puréed. Ad the orange juice, lemon juice, soy, chi sauce, marmalade, sugar, mustard, or ange and lemon peel, rosemary, cloves ginger, and onion. Whirl to blend. Cove and chill until needed, up to 1 week.

Cut ribs into serving-size pieces. In an 8 quart kettle, cook ribs in boiling, salte water to cover for 45 minutes. Drai well. Cover and refrigerate overnight, i desired.

When ready to barbecue, arrange ribs o a lightly greased grill 4 to 6 inches above a solid bed of low-glowing coals. Cook

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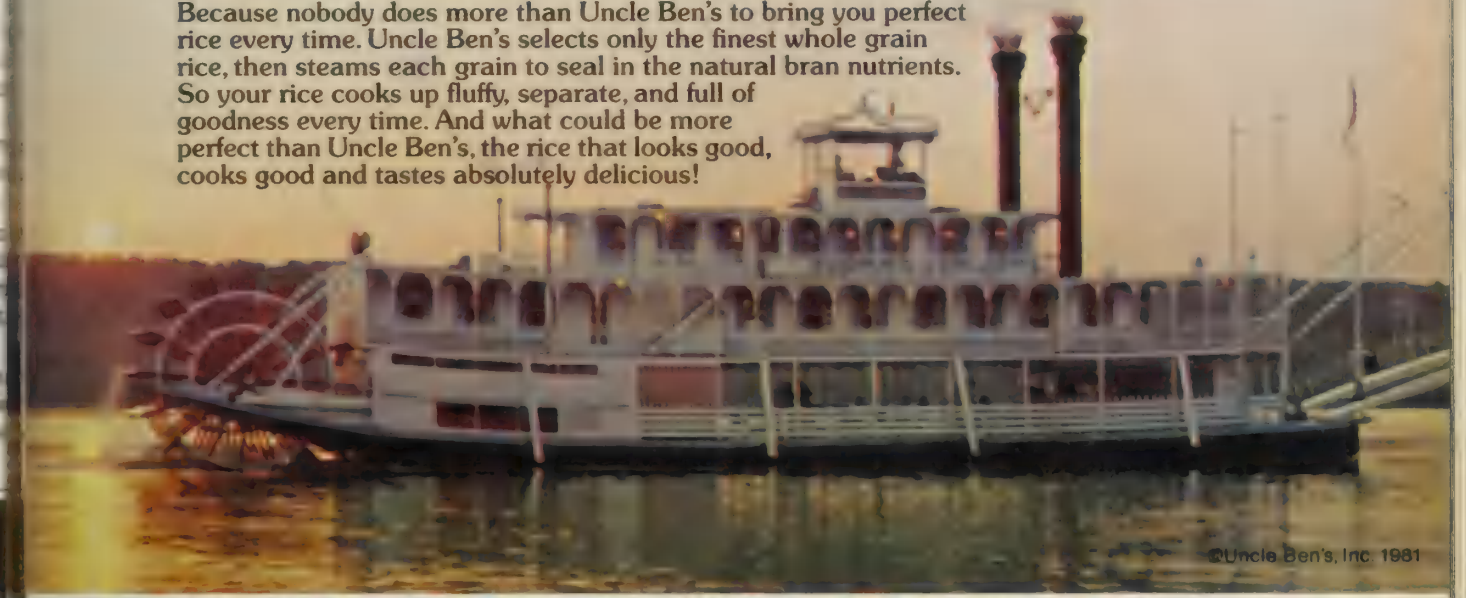

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turning frequently and basting ofte with the plum mixture, for about 30 min utes or until meat near bone is no longe pink when slashed and ribs are richl browned. (Any leftover plum baste ca be frozen to use on more ribs or to bast chicken parts.) Makes 6 to 8 servings.

Bellingham, Wash.

All right, let's try to deal with this in a adult way. Those of you who faint at th sight of bean curd may now leave th room. Please walk, or at most jog.

Now then, we who remain find tof scrumptious, do we not? For with tofu it's either love or hate. There is n bumper sticker reading "Tolerate Tofu."

J. William Visher loves it, and has cre ated a Japanese-style dish with it, both out of affection and because Mrs. Visher is vegetarian and the tofu supplies tasty protein. Mr. Visher serves his dish with soy sauce, but our tasters suggested we also add the soy-sake sauce to enhance the tofu-mushroom mixture.

Tofu with Vegetables

- 1 pound firm tofu
- 2 tablespoons olive oil or salad oil
- ½ pound small mushrooms, halved
- ¼ cup sesame seed
- Soy-sake sauce (recipe follows)
- About 1 pound *each* broccoli and cauliflower
- 3 large carrots, cut in ¼-inch-thick slices
- Salt and pepper
- Hot, cooked brown rice
- Soy sauce

Rinse tofu, drain, and cut into ¾-inch cubes. Heat oil in a wide frying pan over medium heat; add tofu, mushrooms, and sesame seed. Cook, stirring occasionally, until tofu is lightly browned, about 15 minutes. Stir in soy-sake sauce and cook until thickened and clear.

Meanwhile, discard tough broccoli ends; cut stems and flowerets into ¼-inch-thick slices. Cut cauliflowerets into ¼-inch-thick slices. Combine broccoli, cauliflower, and carrots in a vegetable steamer and cook, covered, over boiling water until just tender to bite, about 5 minutes. Lift out and season with salt and pepper to taste.

On a rimmed platter, arrange hot cooked rice; top with vegetables and tofu mixture. Pass soy sauce to drizzle over individual portions. Makes 4 to 6 servings.

Soy-sake sauce. Stir together ¼ cup *each* soy sauce, sake, and dry sherry or regular-strength chicken broth; 1 teaspoon *each* sugar and cornstarch; and ¼ teaspoon ground ginger.

Mountain View, Calif.

When you grow up in Monument, Colorado, you know what goes best with beef.

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Western Roundup Salad

1 can (17 oz.) fruit cocktail
2 packages (3 oz. each) or 1 package (6 oz.) JELL-O® Brand Strawberry-Banana Flavor Gelatin
½ teaspoon salt
¼ teaspoon cinnamon
Dash of cloves
2 cups boiling water
1 tablespoon vinegar

Drain fruit cocktail, reserving syrup. Add water to syrup to make 1½ cups. Dissolve gelatin, salt and spices in boiling water. Add measured liquid and vinegar. Chill until thickened. Fold in fruit and spoon into 5-cup mold. Chill until firm, about 4 hours. Unmold. Garnish as desired. Makes 5 cups or 10 servings.

GF
ENERAL FOODS

The great Jell-O® Gelatin salads. One of them's right with what you're making tonight.

NORMAN A. PLATE

Top *spicy cornmeal tamale crêpes with sour cream and sliced green onion*

Mexican crêpe? Made with cornmeal, filled with chili, spicy meat

Filled with a spicy meat and chili mixture, these cornmeal crêpes taste almost like Mexican tamales. But they're much easier to make.

You can prepare and fill the crêpes entirely ahead, then refrigerate or freeze them. One recipe makes 24, so you can arrange them in two pans and serve one portion for dinner and freeze the other for another meal.

Serve the crêpes with sour cream, sliced green onions, and taco sauce. A salad of marinated sliced oranges and red onions makes a fine accompaniment.

Spicy Tamale Crêpes

- Cornmeal crêpes (recipe follows)
- ¾ pound lean ground beef
- 1 large onion, chopped
- 1 clove garlic, minced or pressed
- 1 can (15 oz.) chili without beans
- 1 can (8 oz.) tomato sauce
- 1 can (4 oz.) diced green chilies
- 1 can (2¾ oz.) sliced ripe olives, drained
- 1½ cups (about 6 oz.) Cheddar cheese
- Sour cream, sliced green onion, purchased taco sauce

Prepare the crêpes (see recipe below).

For the filling, cook the beef, onion, and garlic in a frying pan over medium heat, stirring, until meat is no longer pink. Drain excess fat. Stir in the chili, tomato sauce, chilies, and olives. Simmer, stirring, for 5 minutes. Remove from heat and let cool; stir in half the cheese.

To fill crêpes, place about ¼ cup filling across the center of each crêpe and roll to enclose. Place seam side down in a greased 10- by 15-inch rimmed baking pan (or place 12 each in 2 greased 9- by 13-inch pans). Cover and chill or freeze if made ahead. *To freeze*, place crêpes on a greased baking sheet about 1 inch apart; freeze. Package in plastic bags.

Heat filled crêpes (do not thaw if frozen) in a 375° oven, uncovered, until hot throughout, about 10 minutes (allow 15 minutes if refrigerated, 20 minutes if frozen). Sprinkle crêpes with remaining cheese and heat 5 minutes longer. Pass sour cream, onions, and taco sauce at the table. Makes 6 to 8 servings.—*A. D., Fresno, Calif.*

Cornmeal crêpes. In a blender, combine 3 eggs, ½ cup all-purpose flour, 1 cup yellow cornmeal, 2¼ cups milk, 1½ tablespoons salad oil, ½ teaspoon chili powder, and ¼ teaspoon salt. Whirl until smooth. Pour into a shallow bowl.

Place a 6- or 7-inch crêpe pan over medium heat. When hot, add ¼ teaspoon butter or margarine and swirl to coat surface. At once, pour in about 2 tablespoons batter, tilting pan slowly so batter flows over pan bottom.

Cook until edges are lightly browned. With a spatula, turn and cook other side briefly (it need not brown).

Turn crêpes out of pan onto a plate, stacking them. Stir batter before repeating since cornmeal tends to settle to bottom of bowl. Cool crêpes.

If made ahead, wrap airtight and chill up to 1 week; before separating, let warm to room temperature to prevent tearing. Makes 24 crêpes. □

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ICE CREAM SUNDAE PIE

2 pints (1 quart) vanilla ice cream
1 12-oz. jar Smucker's® Chocolate Fudge Topping
1 6-oz. Chocolate-Flavored Ready-Crust® Pie Crust
¼ cup chopped nuts
Whipped cream or non-dairy topping
Maraschino cherries

In a mixing bowl, stir slightly softened ice cream until smooth. Spoon the ice cream into the pie crust and cover with the inverted plastic lid. Place pie in freezer for several hours, until hard.

To serve: After cutting the pie, spoon Smucker's topping generously over each slice. Garnish with whipped cream, nuts and maraschino cherries as desired.

For more delicious recipe ideas, send your name, address, and zip code, with 50¢, to: Ready-Crust Recipes, Dept. 504, P. O. Box 868, Mundelein, Illinois 60060

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The candy store candy

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DAVID STUBBS

Crumbled tofu *is mixed with crunchy vegetables and nuts for a summer salad*

Tofu salad with nuts, vegetables

For those who are curious but hesitant about the custard-like soybean curd called tofu, we offer an introduction to it in a colorful salad.

Today, with soaring food prices and a keener diet consciousness, many people are working this centuries-old Oriental protein food into their menus as an economical alternative to meat and cheese.

Spoon the salad mixture onto fresh tomatoes or lightly steamed zucchini halves for a supper or luncheon salad, or spread it on hearty bread for sandwiches. For another variation, you might serve it as the recipe's contributor does: wrapped up in a warm flour tortilla.

Deviled Tofu Salad

- 1 container (21 oz.) medium-firm tofu
- ½ cup *each* chopped carrot, celery, and green onion
- ½ cup roasted peanuts or chopped walnuts
- 2 tablespoons *each* lemon juice and Dijon mustard
- 1 tablespoon *each* dry basil and white wine vinegar
- 1 large clove garlic, minced or pressed
- ¼ teaspoon salt
- Dash liquid hot pepper seasoning

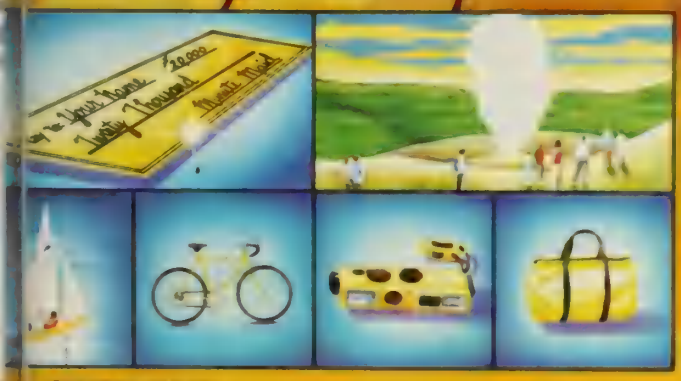
Pour water off tofu and slice in half. Let stand in a colander for 20 minutes to drain, then wrap in several thicknesses of paper towels and gently pat dry. Crumble tofu into a bowl and add the carrot, celery, green onion, and peanuts.

In a small bowl, combine lemon juice, mustard, basil, vinegar, garlic, salt, and liquid hot pepper seasoning; pour over tofu mixture and stir gently to mix. Cover and chill at least 4 hours or overnight. Makes 4 cups filling, enough for about 6 sandwiches or salads.—*L. H., Auburn, Calif.* ▫

Minute Maid® Lemonade

YELLOW BRICK ROAD SWEEPSTAKES

$20,000 GRAND PRIZE



Grand Prize: $20,000 in Cash
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120 Fourth Prizes: Lemon-Yellow Minolta Weathermatic-A 110 Cartridge Camera
1,220 Fifth Prizes: Lemon-Yellow Minute Maid Duffle Bag

It's easy to find out if you're a winner. Just take the Instant Win ticket printed on this advertisement to your grocer and see if you have a lucky U.P.C. code number.

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HASE NECESSARY. To claim your prize, send your U.P.C. symbol with your d mail, return receipt requested to MINUTE MAID OK ROAD SWEEPSTAKES c/o Marden-Kane, Inc. enue, New York, N.Y. 10103. Machine duplicated ally reproduced code symbols will be declared valid claims must be in writing and received by 1981. 2. Ohio residents and others who do not a store to determine whether your symbol is a obtain a facsimile of the Minute Maid Lemonade s by sending a self-addressed, stamped envelope BRICK ROAD FACSIMILE, P.O. Box 22, New York This request must be received by August 15, 1981 Winners: 44,780,000 entries will be distributed ing are: Grand prize: 1 in 44,780,000; first prize 000; second prize: 1 in 22,390,000; third prize: 1); fourth prize: 1 in 373,167; fifth prize: 1 in 36,705

econd Chance Drawing

ned prizes will be awarded via a Second Chance ing conducted on October 16, 1981 by an inde ging organization whose decisions are final. To rint your name and address on a 3" X 5" piece of along with the words "MINUTE MAID LEMONADE COND CHANCE," P.O. Box 2, New York, N.Y. 10046

Enter as often as you wish, but each entry must be mailed separately and received by October 1, 1981 to be eligible. Odds of winning depend on the number of unclaimed instant prizes, and the number of entries submitted. 5. Winners will be notified by mail, no later than November 13, 1981. Limit one prize to a family. Taxes, if any, are the sole responsibility of the winner. Prizes are non-transferable. No substitutions permitted. All prizes will be awarded. Winners may be required to execute an affidavit of eligibility and release. Prizes won by minors will be awarded in the name of a parent or legal guardian. Any minor winning a trip must be accompanied by a parent or legal guardian. 6. Sweepstakes open to all residents of the United States, except employees and their families of The Coca-Cola Company, its subsidiaries, affiliates, advertising agencies, printing agents, and Marden-Kane, Inc. Void where prohibited by law. Subject to all Federal, State, and local regulations. 7. Prizes to be awarded: 1 grand prize of $20,000; 1 first prize of a family trip to Yellowstone National Park (to be taken no later than August 31, 1982); 2 second prizes—A.M.F. Puffer sailboats; 20 third prizes—yellow Columbia 10-speed bicycles; 120 fourth prizes—Minolta Weathermatic-A cameras; 1,220 fifth prizes—yellow duffle bags. Total value of all prizes is $64,089. 8. For a list of major prize winners, send a self-addressed, stamped envelope to: Minute Maid Lemonade Winners, P.O. Box 376, N.Y., N.Y. 10046. This sweepstakes is being conducted on a nationwide basis. 9. Void in Wisconsin.

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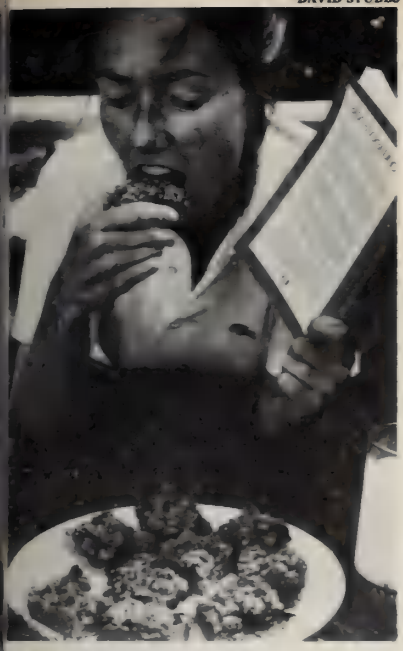
DAVID STUBBS



ween chapters, *whole-wheat bars with filling make sweet snacking*

hock-full-of-fruit cobbler bars

st and substantial, these fruit bars chock-full of things that are good for . You can make them ahead to freeze, thaw a few at a time to tuck into ch boxes or to bring out at snack time.

ole-wheat Cobbler Bars

cup honey
cup butter or margarine
cups *each* whole-wheat flour and regular rolled oats
cup chopped nuts
tablespoons sesame seed
teaspoon *each* salt and soda
Date or apricot filling (recipes follow)

bowl, beat together honey and butuntil smooth. Mix together flour, oats, s, sesame seed, salt, and soda. Slowly into the honey butter, mixing until l blended.

ss half the mixture into a greased 8-1-square pan. Spread with fruit filling, crumble remaining oat mixture over Bake in a 350° oven for 25 to 30 utes or until golden. Makes 16 bars.

e filling. In a pan, combine 8 ounces pped dates with ¾ cup water. Cover simmer gently for about 10 minutes until soft. Remove from heat and stir l mixture becomes thick.

ricot filling. In a pan, combine 6 ces chopped dried apricots and 1 cup er. Cover and simmer about 20 min- or until tender; remove from heat stir until mixture becomes thick. Mix tablespoons honey and ¾ teaspoon ond extract. □

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DARROW M. WATT

Raclette in camp: *as cheese melts over a barbecue fire, spoon it over grilled sausages and foil-wrapped steamed potatoes, carrots, zucchini*

JULY MENUS

Cheese melts on the barbecue, an easy mushroom-cheese quiche, orange-papaya chicken

With the camping season upon us we start this month's menus with a sim easily transportable meal suited to outdoors. It's styled after the S *raclette* supper, which centers arou big chunk of cheese that melts nea fire. In our version, the cheese mel top of the camp grill, which also sausages and vegetables.

Other menus this month include br with a mushroom-studded quiche could also serve as a meatless su entrée. And for dinner worthy of gu serve Cornish game hens or chicken orfully dressed with papaya and avoc

Camp supper

The peasant-style meal, raclette, is ally staged by a fireplace. A chun cheese is set near the fire, and as it m the soft cheese is scraped off and spoo over small boiled potatoes to eat. using a barbecue grill, you can adapt idea for a patio or camp supper. On grill, the cheese melts more quickly evenly to keep pace with hungry out appetites. We've expanded the traditi menu to include sausages and vegeta that all cook on the grill.

Raclette with Sausages and Vegetable
Small Sweet Pickles Marinated On
Mustard
Crusty Bread or Breadsticks
Fruit and Cookies
Apple Juice or Wine

About 1 hour before eating, start the and marinate the onion. While the fir medium-hot, place the foil-wrapped v etables on the grill. Shortly before se ing, brown the sausages. When vegetab and sausages are done, set the che over the low-glowing coals and, as melts, spoon it over vegetables and me Scoop up any leftover cheese with bre

Raclette with Sausages and Vegetables

- 1 pound *each* carrots, thin-skinned potatoes, and zucchini
- Salt and pepper
- About 6 tablespoons water
- 6 to 8 cooked sausages such as knackwurst or kielbasa
- 1½- to 2-pound chunk of mellow-flavored cheese such as Jarlsberg Swiss, fontina, Gruyère, or jack

Cut the carrots and potatoes into ¼ inch-thick slices; cut the zucchini in ½-inch slices. Place each vegetable on piece of heavy foil, sprinkling each wi salt and pepper and about 2 tablespoo water. Wrap well. Place vegetables on grill 4 to 6 inches above a solid bed medium-hot coals. Cook until tender, 2 to 30 minutes, turning occasionally.

About 5 to 10 minutes before vege tables are done, place sausages on gri and cook, turning occasionally, unt browned. Shortly before serving, plac cheese, trimmed of any wax, in a shallo

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Egg Fu Yung starts with San Francisco's Rice-A-Roni

Prepare 1 pkg. Fried Rice-A-Roni according to package directions; cool. Beat 6 eggs with 1 Tbsp. soy sauce, ½ tsp. salt, dash pepper. Stir in cooked Rice-A-Roni, 1 (16 oz.) can drained bean sprouts, ¼ cup sliced green onion. Drop mixture by ½ cupfuls onto greased griddle. Brown on each side. Sauce: combine 2 Tbsp. cornstarch, 2 Tbsp. soy sauce and 2 cups water; cook until thick. Serve over Egg Fu Yung. Serves 4.

Weekend brunch *features an easy mushroom-and-cheese quiche. Serve with sausages, strawberry-filled melon halves, and toasted muffins*

DARROW M. W

Place rolled oats *in the bottom of a buttered pan to form a thin crust for quiche. Cheese, vegetables, and eggs go on top*

pan somewhat larger than cheese. Set pan on grill over low-glowing coals. As cheese melts, spoon it over vegetables and meat. Makes 6 to 8 servings.

Marinated Onion

Stir together ¼ cup white wine vinegar, 1 teaspoon sugar, and ½ teaspoon salt. Stir in 1 large onion, thinly sliced. Cover and chill at least 1 hour. Makes 6 to 8 servings.

Weekend brunch

The thin crust on the bottom of this simplified quiche is made from rolled oats. If you bake the quiche in a metal pan, use a slightly higher oven temperature to brown the crust. Make sure the oven is preheated to the proper temperature before baking.

Melon Halves with Strawberries
Oat-crust Quiche
Sausages — **English Muffins or Rolls**
Butter — **Marmalade (optional)**

As the quiche bakes, fill small honeydew or cantaloupe halves with strawberries; garnish with a few melon balls, if desired. Then brown the sausages and toast the muffins.

Oat-crust Quiche

In a wide frying pan melt 2 tablespoons butter or margarine over medium-high heat. Add ⅓ pound mushrooms, thinly sliced; 1 cup shredded carrots; and 1 cup thinly sliced green onions. Sau until all juices evaporate and mushroom are lightly browned. Beat together eggs, 1 teaspoon thyme leaves, ½ te spoon garlic salt, ¼ teaspoon peppe and ⅛ teaspoon ground nutmeg. Stir 2 cups scalding hot milk.

Sprinkle 1 cup rolled oats in an eve layer over the bottom of a buttered or 9-inch-square baking dish or pa Sprinkle 2 cups shredded Swiss or jac cheese over oats, then cover with musi room mixture. Slowly pour egg mixtu over it. If using a glass dish, bake on th bottom rack of a 375° oven (400° for metal pan) until set in center, 30 to 4 minutes. Makes about 6 servings.—*W. S Durango, Colo.*

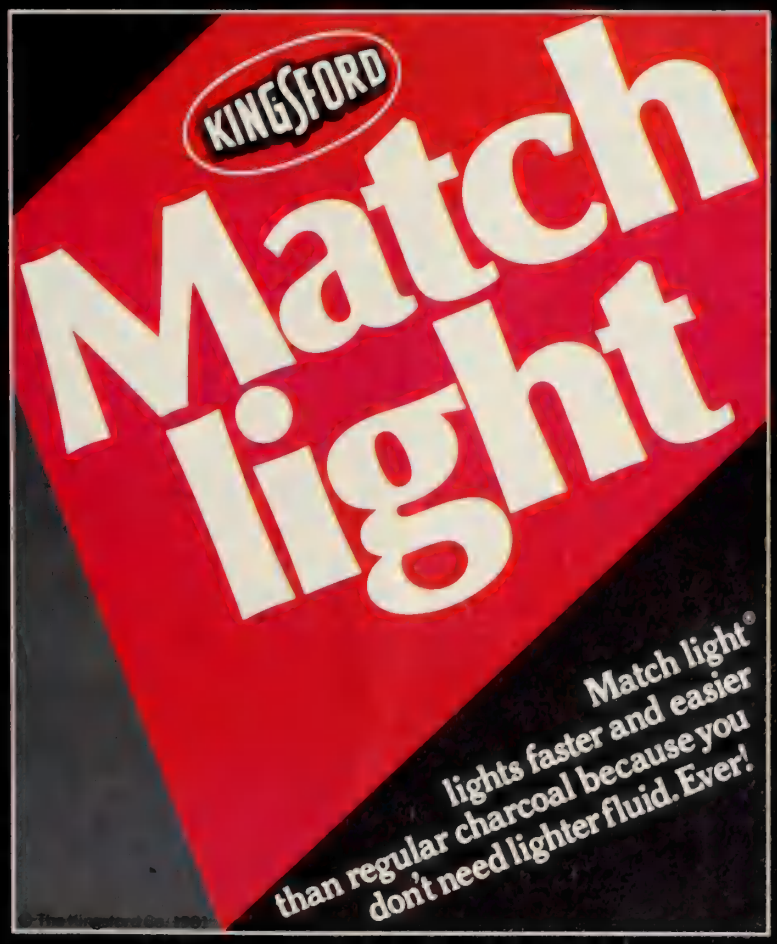
Company dinner

Chicken or Cornish game hens simme in orange juice with papaya and raisin Garnish with avocado and nuts for stylish dinner entrée.

Green Salad
Orange-Papaya Chicken
Rice or Bulgur Pilaf
Steamed Green Beans (optional)
Coconut or Toasted Nut Ice Cream
Nut or Butter Cookies

While the chicken cooks, prepare th pilaf and green salad using your favorit

The pour... and light charcoal.



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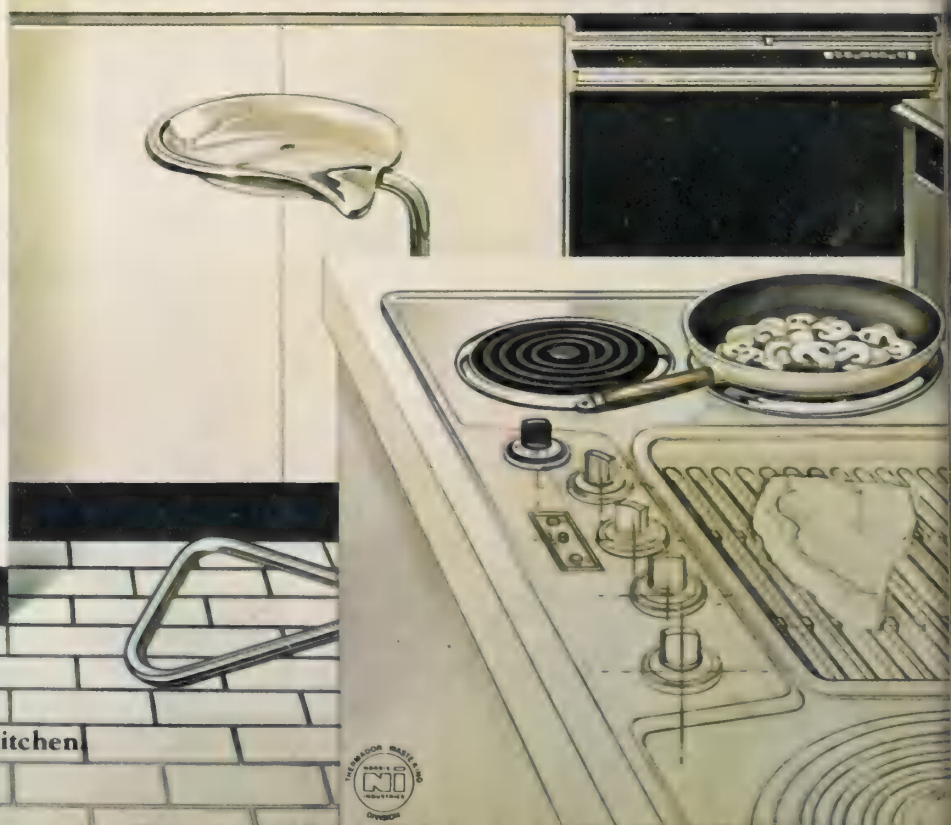

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r .pes. Cook the green beans just before s ving.

(nge-Papaya Chicken

- to 4 tablespoons salad oil
- large onion, cut in eighths
- cloves garlic, crushed
- broiler-fryer chicken (about 3 lbs.), cut into serving-size pieces, or 2 Cornish game hens (about 1 lb. each), split into halves
- 1 cups orange juice
- 1 teaspoons ground ginger or a dash of saffron
- cup raisins
- ! tablespoons sliced ripe olives
- teaspoon salt
- firm-ripe papaya, seeded, peeled, and cut into eighths
- ! tablespoon *each* cornstarch and water, blended until smooth
- ripe avocado, peeled and sliced
- cup toasted sliced almonds
- Lime wedges

] a deep 12-inch frying pan, put about 2 ablespoons of the oil. Add onion and g lic. Cook, stirring, until soft and g lden; lift out of pan. Add more oil, t n add chicken. Cook, turning as e ded, until browned, about 15 minutes.

turn onion and garlic to pan. Add a nge juice, ginger, raisins, olives, and t. Lay papaya over top. Cover and s mmer 20 to 30 minutes, until chicken i no longer pink when slashed.

] ft out meat and papaya and place on s ving platter. Skim off and discard fat. r cornstarch mixture into cooking j ces and cook, stirring, until sauce b ils and thickens. Pour over chicken a d papaya. Garnish with avocado c ces, toasted nuts, and lime wedges. S rves 4.—*C. M., Veradale, Wash.* □

We're looking for "fine dining" groups

Do you belong to a small group that enjoys planning and producing dinner parties where everyone is assigned courses (not potluck) to contribute to the menu? If so, we would like to hear from you.

In a short letter, tell us about your group and how you organize your meals. How far in advance do you plan a menu and how are courses assigned? Do most courses require last-minute preparation in the host's kitchen, or are they brought ready to serve? How do you select wines? Do you print menus? Hire strolling musicians? Who serves, and how do you handle cleanup?

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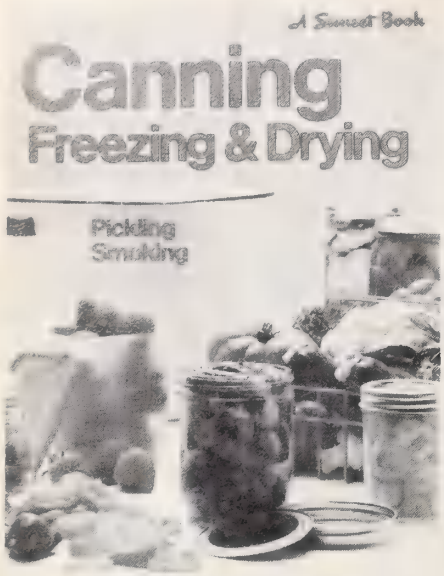

Updated Sunset book *offers methods and recipes for preserving fruits and vegetables. Pickling and smoking are included*

Update on preserving . . . with charts, recipes, techniques, problem-solvers

Whether it's homegrown bounty from the garden or a bargain from the produce market, surpluses of ripe fruits and vegetables tempt many Westerners into their kitchens for a canning session. For some, it's a time-honored summer rite. In recent years, however, the art of food preservation has attracted increasing numbers of newcomers.

To help these novices—and to provide new ideas for accomplished canners—*Sunset* has updated its food-preservation primer: *Canning, Freezing & Drying,* (Lane Publishing Co., Menlo Park, Calif., 1981; $4.95).

Enticingly illustrated with color photographs and drawings, the book describes step-by-step instructions and safe procedures for water-bath canning, pressu canning, jam and jelly making, picklin freezing, drying, and smoke-cookin Easy-to-follow charts detail preparatio steps and processing times for fruits, ve etables, and meats. And more than 12 recipes give you new ways to preserv foods and use them creatively.

In addition to conventional methods (in cluding the centuries-old process of su drying), *Canning, Freezing & Dryin* gives the latest techniques for using co vection ovens and microwave ovens t preserve foods.

Especially useful for beginners is a ques tion-and-answer section that covers man of the common problems encountere by home canners.

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– Franco Bolla

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A Sunday outing *in Rome includes a stop for tartufo—rich chocolate ice cream rolled in bittersweet chocolate chips*

Gelato *in a cone is an Italian experience for just 400 lire (about 40 cents*

Ice creaming it in Italy can be addictive

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Italians have been noted for their ic desserts since the 16th century—th most famous producers being the Sici ians and Neapolitans. They make the gelato with more egg than we are u to, and the flavors come through wit grand intensity.

It's a rare city that doesn't have a *gela teria* (ice cream shop), offering a wid assortment of frozen treats. We counte 25 flavors, some familiar and some in triguing ones like *zabaglione, marron* (chestnut), and *amaretto* (macaroon). Bu it was the variety of fresh fruit flavors— fig, melon, kiwi—that delighted us.

Some specialties worth trying are half frozen *semi freddi; granita,* finely shave ice with fresh fruit syrups; and *spumone* a mix of ice creams and candied fruit.

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DAVID ST

Crunchy slices *of zucchini, peppers, and celery are scoops for melted cheese*

Vegetables as nacho scoops

Instead of tortilla chips, crisp vegetabl get the toppings in these two colorf variations on the nacho idea. Serve the as an appetizer, a vegetable side dish, a luncheon entrée.

You'll need about 4 cups vegetabl Choose 2 or more from: carrot or cele sticks, zucchini or crookneck round green or red bell pepper strips, jicama turnip sticks. Cut each so it's stur enough to scoop up the melted cheese bean dip.

Vegetable-Cheese Nachos

Arrange vegetables (see above) on a hea proof platter. Top evenly with 2 cups (lb.) shredded jack or Cheddar cheese an 2 to 3 tablespoons *each* canned dice green chilies and sliced ripe olives. S 4 to 6 inches under a preheated broil for 5 to 7 minutes or until cheese melt Use vegetables to scoop up topping serve on plates to eat with a fork. Serve about 6.

Vegetable-Bean Nachos

In a frying pan, heat 2 tablespoon salad oil over medium heat; add 1 onio (chopped) and cook, stirring, for 5 min utes. Stir in 1 clove garlic (minced o pressed), 1 small can (8 oz.) refrie beans, 1 tomato (chopped), and ¼ cu canned diced green chilies; cook, stir ring, until bubbly. Stir in 1 cup (about ¼ lb.) shredded jack or Cheddar cheese.

Spoon bean dip onto center of a heat proof platter and surround with vege tables (see above). Heat and serve as di rected in above recipe. Serves about 6.

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nly takes a moment more.
o it. You'll be a star.

ensational Salad

Tbsp. vegetable oil
Tbsp. vinegar or lemon juice
tsp. each—salt, pepper, dry mustard
love garlic (crushed)
cups mixed greens torn (your choice of
ny combination of the following—
romaine, iceberg lettuce, escarole,
spinach, endive, leaf lettuce)
California Avocados, pitted, peeled, sliced
cup Bac*Os® imitation bacon

easure vegetable oil, vinegar, salt,
epper, mustard and garlic into cov-
ed jar. Shake well. Refrigerate
ntil chilled. Shake well before
sing. Toss dressing with greens,
vocados and Bac*Os in large
lad bowl just before
erving.
akes 4 servings.

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GLENN CHRISTIANS

Brush melted jelly *over fresh strawberri*
marmalade over apricots to give fruit a quick, shiny gla
Pastry raft has cream-cheese filli

Fruit-filled French pastries with assembly-line speed and ease

You can turn out fruit desserts that rival a French pâtisserie with almost assembly-line speed. The secret is ready-made sheets of frozen puff pastry sold in grocery store freezers.

To make a crisp, flaky raft for fresh fruit, you simply bake a pastry sheet with a cheese or almond filling or a topping of crunchy nuts. Or top a pastry sheet with fruit and bake together, then serve with sour cream for a breakfast treat or dessert.

These pastries taste best freshly made. But if you like, you can bake the puff pastry base early in the day, then complete it shortly before serving.

Fresh Fruit-filled Pastries

- 1 sheet puff pastry (half of a 17¼-oz. package)
- Cheese or almond filling (recipes follow)
- ⅓ cup currant jelly or orange marmalade
- About 2 cups halved strawberries, sliced apricots or peaches, (or use 1 cup *each* of 2 different fruits)

Remove 1 sheet puff pastry from package; cover and let stand at room temperature 20 to 30 minutes or until pliable. (Refreeze remaining pastry sheet.) Place on an ungreased baking sheet and unfold pastry. Spread the cheese or almond filling down length of sheet, keeping about 1½ inches in from both lo sides. Fold long edges of pastry over cover edges of filling.

Bake in a 425° oven until browned, to 15 minutes. Remove from oven a let cool thoroughly. Let stand at roo temperature up to 4 hours.

Up to 1 hour before serving, melt jel in a small pan over low heat (use jel with berries, marmalade over aprico and peaches). Lightly brush surface filling with melted jelly. Arrange fru over filling, overlapping cut piec slightly. Brush fruit with remaining jell Cut with a sharp knife. Serves 8 to 10.

Cheese filling. In a small bowl, beat to gether until smooth 1 package (8 oz cream cheese, ⅓ cup sugar, 2 table spoons all-purpose flour, 1 teaspoon va nilla, and ½ teaspoon grated lemo peel. Beat until smooth.

Almond filling. In a small bowl, beat ½

DARROW M. WATT

eberries nestle *in lemon-flavored urt cream on nut-coated puff pastry*

o butter or margarine until creamy. adually add 1 package (7 oz.) almond ste, 1 egg white, and ½ teaspoon ted lemon peel; beat until blended.

uit and Yogurt Cream Pastries

1 sheet puff pastry (half of a 17¼-oz. package)
About 3 tablespoons sugar
cup coarsely chopped nuts
cup heavy cream
1 carton (8 oz.) lemon-flavored yogurt
About 2 cups whole blueberries or sliced strawberries, apricots, or peaches

move 1 sheet puff pastry from pack-e; cover and let stand at room tem-rature 20 to 30 minutes or until plia-e. (Refreeze remaining pastry sheet.) ace on an ungreased baking sheet and fold pastry. With a fork, prick pastry over. Sprinkle evenly with 2 table-oons of the sugar and all of the nuts. ke in a 425° oven until browned, out 15 minutes. Cool thoroughly.

ortly before serving, whip cream until ff. Stir yogurt until blended, then fold o cream. Fold in sugar to taste. Spread er cooled pastry to within ½ inch of ges. Arrange fruit over cream, over-pping cut fruit slightly. Cut with a arp knife. Makes 8 to 10 servings.

ot Fruit Pastries

1 sheet puff pastry (half of a 17¼-oz. package)
2 cups sliced apricots
3 tablespoons sugar
¼ teaspoon ground nutmeg or cinnamon
3 tablespoons sliced almonds
Sour cream (optional)

emove 1 sheet puff pastry from pack-ge; cover and let stand at room temper-ure 20 to 30 minutes or until pliable. Refreeze remaining pastry sheet.) Place n an ungreased baking sheet and unfold astry. Arrange fruit over pastry, over-pping slices slightly and keeping it out ½ inch from edges. Mix the sugar ith nutmeg and sprinkle evenly over uit. Sprinkle with almonds.

ake in a 425° oven until browned, out 20 minutes. Cut with a sharp ife. Serve hot with sour cream, if de-red. Makes 8 to 10 servings. □

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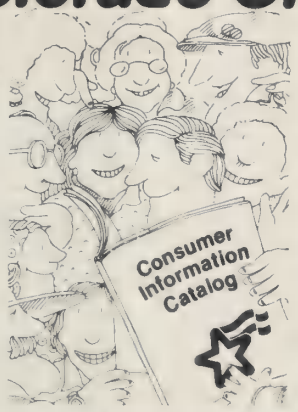

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GSA General Services Administration

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Stuff-a-Roni Florentine

1 pkg. Golden Grain Stuff-A-Roni.
2 (15 oz.) cans Golden Grain Marinara Sauce

Filling:

½ lb. ground beef
1 med. onion, minced
2 Tbsp. oil
1 cup soft bread crumbs
10 oz. pkg. spinach, thawed
2 Tbsp. grated Parmesan
3 eggs
1½ tsp. salt
¼ tsp. pepper

Cover bottom of oblong 2 qt. baking dish with 1 cup sauce. Brown beef and onion in oil; add remaining ingredients. Fill uncooked Stuff-A-Roni; arrange in single layer in baking dish. Pour remaining sauce with ½ cup water over top. Cover with foil; bake at 375°F., 1 hour.

THE GOLDEN GRAIN FAMILY OF FINE FOODS

LY IN YOUR GARDEN:

Time to relax, tend to basics. What are basics? Watering, replanting, propagating, and more watering

ever you look at it, July brings re- al. For some gardeners, it signals a deserved break—time to relax, tend to basics, and restore flagging ener- Others see the chance to gear up phase two of the still-long growing on ahead.

y spring-planted annuals are nearly ed out now. Replant soon, and dy growth will spark what might rwise be a lackluster August.

d on for ideas about watering, re- ting, propagating, and building gar- furniture—all prime July jobs. ck the coleus news (new kinds for ging baskets) on page 172. And les on pages 64 and 164 may inspire e garden renovation.

ipers can't stand wet feet

can kill junipers with kindness. Too h water, especially during our dry mer and fall, can encourage crown or water mold root rot—a common se of yellowing, poor growth, and ntual collapse of the plant.

prevent the problem, water only min- lly—once a month or less—from l-June until the start of the rainy sea- . Two deep soakings during the sum- are usually ample for established nts; most do well without any sum- r irrigation.

ect water toward the outer root zone éad of the plant's trunk by sloping watering basin away from the crown. ep lawn sprinklers away from juniper ntings. If they get the same amount water as a well-tended lawn, they're almost certain to develop root rot eventually.

Some junipers are more susceptible than others

Restricting summer watering is the first defense against root rot problems in junipers. However, if you're planting or replacing junipers this month, it may also help to pick more resistant varieties, particularly if you have poorly draining soil.

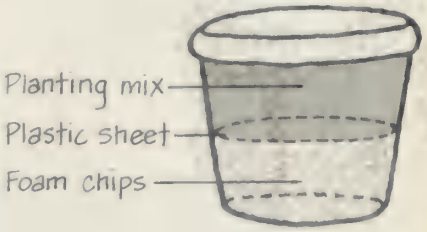
In tests of 19 popular low-growing varieties, University of California plant pathologists have found that *Juniperus virginiana prostrata*, *J. scopulorum* 'Table Top Blue', *J. chinensis procumbens*, and *J. conferta* are the least affected by root rot diseases.

The most susceptible kinds include *J. chinensis* 'Pfitzeriana Compacta', *J. c.* 'Parsonii', *J. c. procumbens* 'Variegata', and *J. c. sargentii*. Popularly planted tam juniper (*J. sabina* 'Tamariscifolia'), *J. chinensis* 'San Jose', and *J. horizontalis* 'Bar Harbor' are all fairly sensitive, with ratings of 4.1 or higher on a susceptibility scale of 1 (low) to 5 (high).

How to lighten big pots

Big containers full of flowers and vegetables look great, and they're a quick way to liven up decks or patios for outdoor summer parties. But they can be backbreaking to move around.

One way to lighten the load is to use large pots of lightweight paper pulp instead of heavier terra cotta. Then you can reduce the weight even more by filling them partly with soil and partly with styrene foam chips.



The setup in our sketch shows only the top 6 inches or so of the pot filled with planting mix. Underneath is a layer of perforated sheet plastic to keep soil from washing into the chips and to hold water around roots longer.

Most nurseries sell pulp pots. Foam chips cost about $1 to $2 per cubic foot at paper or packaging material suppliers.

More counties tune into Teletips

About a year ago, a few northern California counties began "Teletips," a simple, phone-in cooperative extension service that offers callers a selection of taped messages on gardening, home care, and food preservation.

Butte, Inyo, Mendocino, Mono, Lake, Sacramento, San Joaquin, Santa Clara, and Siskiyou counties now have the Teletips service. For a list of the taped programs and the special number to use, call the cooperative extension office in any of these counties and ask for the free Teletips brochure.

Several other counties—Amador, Calaveras, Glenn, Modoc, Stanislaus, and Tuolumne—are planning to start the program this month. And soon Alameda,

Sunset's
GARDEN GUIDE
Special information for high elevations, page 17-

climb up through tropicals, ferns

ront entry landscape on the Southern California coast was in its d summer when we photographed it. The interesting fan-shaped turns railroad-tie path were constructed as shown on page 178.

all shrub she's touching is a *Tupidanthus* (several more can be seen ht of steps). This plant could probably live outdoors in mild climates hose of San Francisco and Carmel. The trouble is that in northern ornia it sells mostly at house plant prices (expensive).

anian tree fern fills a lot of space to the left of the steps. Across the from the tree fern is a *Fatsia japonica* with baby's tears beneath it. om at left: a white impatiens and some salmon semperflorens begonias. green plants in left foreground are mondo grass.

Sunset's GARDEN GUIDE

BILL ROSS

Hinged bench *seat lifts up when he wants access to sprinkler valves hidden inside*

Contra Costa, San Luis Obispo, San Mateo, and Sonoma counties should be following suit.

Double-duty bench

Why build a bench just for sitting?

The one at left doubles as a valve box. It conceals unattractive sprinkler controls for one part of the garden.

Dick Mitch of Dunlap, California, constructed the bench with redwood 2 by 4's. Its sturdy boxed base also has plenty of room for stashing trowels, clippers, a hose, or other tools that might be needed in short order.

Piggy-back and spider plants are ready garden colonists

Shade gardening takes on a fresh appeal during hot July weather. Now is when you're likely to discover some cool, shady spot that needs filling or refurbishing. Luckily, it's also a time when many plants propagate readily—and two willing candidates may be close at hand.

More commonly sold as house plants, both piggy-back plant (*Tolmiea menziesii*) and spider plant (*Chlorophytum comosum*) nonetheless thrive outdoors in our mild-winter climates. (*Tolmiea* is, in fact, native to California's redwood forests.) In a protected shady spot, either one could fill out fairly rapidly to make an interesting ground cover.

DARROW M. W

At home outdoors *as well as in, spider plant offspring fill out to skirt the deck*

Both plants are prolific self-propagat one indoor parent, like a horticultu brood hen, could easily populate a go sized garden area. You can snip off plantlets and root them in water bef transplanting, but you'll get nearly same results if you simply relocate pla lets in moist garden soil and let th take off for themselves.

Where winter temperatures drop into t twenties, chlorophytum may need ex protection from frost.

JULY CHECK LIST: *Here is midsummer action*

☐ **Compost.** Grass clippings in thin layers (less than 2 inches deep) break down faster, don't turn to sodden clumps. Adding nitrogen now (lawn food is good) speeds decomposition. Keep piles damp; turn periodically.

☐ **Divide iris.** Along the coast, lift and divide overgrown clumps of bearded iris this month or next. In hot inland areas, wait until fall.

☐ **Fertilize.** Bedding plants, begonias, fuchsias, roses, and vegetables—as well as plants in containers—need regular feeding for peak summer performance. Apply slow-release fertilizer when you plant, or feed when you water for greatest convenience.

☐ **Groom.** Pick faded flowers from fuchsias, marigolds, roses, and other summer annuals to prolong flowering. Rejuvenate bloomed-out alyssum, felicia, lantana, lobelia, petunias, and verbena by cutting them back. Train new growth of vines; clip out old stems that have been replaced by sturdy new ones.

☐ **Mulch.** A 2- to 3-inch mulch of ground bark or compost around newly planted flowers and vegetables helps roots stay cool and moist. Renew mulches around azaleas, camellias, rhododendrons, and roses.

☐ **Plant perennials.** Perennials in full bloom now are hard to pass up at the nursery. Acquaint yourself with some new ones, such as Michaelmas daisy, nierembergia, or the different kinds of Gloriosa daisies.

☐ **Plant summer flowers now.** Choices include: ageratum, alyssum, begonias, coleus, dahlias, dianthus, impatiens, lobelia, marigolds, petunias, portulaca, vinca, and zinnia. For fragrance and permanence, choose gardenias and star jasmine—in bloom now.

☐ **Plant vegetables.** In the Sacramento, San Joaquin, and other interior valleys, set out transplants of broccoli, Brussels sprouts, cabbage, and cauliflower for late fall production. Start these from seed now near the coast. In most areas, there's still ample time to sow late or second crops of bush beans, corn, and summer squash as well as beets, carrots, and radishes.

☐ **Tend fruit trees.** Clean up fallen stone fruits and "mummified" fruits on the branches to avoid brown rot (spread by fungus spores). Prop up fruit-heavy branches with sturdy poles.

☐ **Treat plant damagers.** Watch for hornworms on tomatoes—pick and destroy them. If budworms get in petunias or geraniums, treat with orthene. Cutworm or flea beetle infestations in dichondra may need dursban, diazinon, or other specific controls.

☐ **Water.** Quenching plants' thirst is a major July job. Plants in containers and hanging baskets may need watering once or even twice daily. If dried soil or potting mixes repel water, adding a soil penetrant helps.

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Ask for Ford Motor Company's Extended Service Plan by name.

DARROW M. W

1 • *Massive raised beds covering about 40 by 60 feet fill Ed Wilson's back garden (see plan below); everything is drip-watered, drip-fertilized. Boardwalks divide beds into 4½- by 10-foot units. Beds were built of scrap wood from crates and pallets*

BACK-YARD ENGINEERING

Veritable vegetable factories: how they plan

Using their back yards like outdoor laboratories, organic ga deners Dean Bunnell and Ed Wilson developed the hig yield, low-maintenance vegetable-growing system you see these two pages. The article on pages 64 and 65 shows speci ideas from their gardens; here's how their system works.

Improved soil, raised beds, black plastic mulch, and dr watering and feeding are the key ingredients. The raised bed most of them built as modules 4½ feet wide and 9½ or feet long, hold a mix of loam, sawdust, and compost that h been worked into native soil to a depth of 1½ feet.

Black plastic covers fitted into the beds stop weeds, conser soil warmth and moisture, and discourage most bugs (exce for persistent sowbugs). For most of the crops, holes in th plastic are prespaced 6, 12, 18, or 36 inches apart.

Drip watering not only conserves water it prevents soil com paction. The drip lines, like the plastic covers, can be lifte and moved when beds are replanted. The entire drip syste in each garden feeds off one water supply line, connecte near the hose bibb. Inexpensive plastic shutoff valves allo the branch lines in each bed to be controlled independent —or shut off entirely when the box is empty.

The system in the Bunnell garden operates at a water pre sure of 10 pounds per square inch (psi). Using gauges and series of manual valves, Ed Wilson likes to experiment wit different working pressures. He runs most of his system at remarkably low pressure of 3 psi.

Both systems use mixer-proportioners to feed plants whil

Arrangement *of crops and drip lines in the Wilson garden: emitters run to individual plants; misters or soaker hoses water seed-sown rows. When crops rotate, plastic cover, drip lines, and freestanding trellises move easily*

W. D. V. STEPHENS

k plastic, *attached to frames that side beds, inhibits weeds and keeps in nth and moisture; note holes for plants*

2 • *The Bunnell garden—shown in April above—uses the same system. Raised beds are 2-by-12 rough-sawn redwood. Drip lines connect to white water pipe along fence. The same garden is shown in August below*

ter, fertilize

're watered. Plants are fed once or twice a week ("like ng vitamins") with a weak 2½-2½-2½ solution mixed water at a ratio of about 1 to 300.

venience is one of the biggest payoffs in these gardens. sed to spend 8 hours watering every weekend," says Ed son. "Now I just turn the water on for 5 to 7 minutes y morning before work." When he fertilizes, he runs the er longer—about a half-hour. Altogether, the garden con- es 90 percent less water than it did before.

Bunnells plan to install an electronic controller to water fertilize the raised beds—as well as lawns, flower beds, patio plants—automatically.

It takes only *20 by 30 feet for Dean Bunnell to raise his crops. Symbols below show connections used in both gardens*

p emitters •

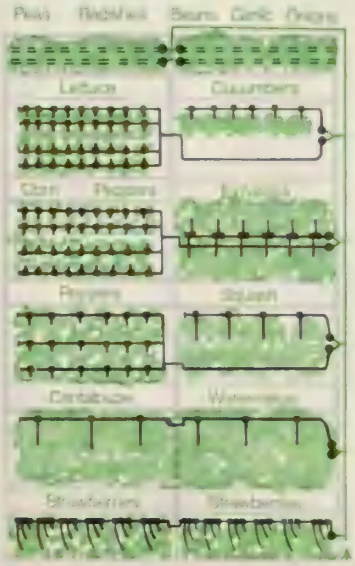
aker hose = =

utoff valve ■

ster □

ip hose ——

ater pipe ——



Are you a garden innovator?

Dean Bunnell and Ed Wilson were entrants in our 1979 and 1980 garden contests, respectively. If you'd like to share your good gardening ideas, send your name, address, and daytime telephone number along with a few snapshots and a brief description to Garden Contest, *Sunset Magazine*, Menlo Park, Calif. 94025. Or call (415) 324-5471.

English *lavender and its many varieties have slender spikes without petal-like bracts at tips*

Spanish *lavender has thick spikes with dark purple flowers and a terminal tuft of narrow bracts*

DARROW M. WA

French *lavender has toothed leaves and short, fat flower spikes tipped with broad, pale purple bracts*

Legendary fragrance, adaptability . . . lavender

Good reasons for growing lavender include its cool blue-gray color on a hot day, its clean and pleasant fragrance, and its tolerance of sun and poor soil. Now is the time to plant it, harvest its flowers, and enjoy its rich heritage.

A wealth of legendry has grown up concerning the virtues and uses of lavender. We no longer count on it to protect us against the plague, hysteria, or apoplexy, but it is still used in smelling salts and aromatic spirits of ammonia. Its richly scented flowers and leaves may not "comfort and dry up the moisture of a cold braine," but the perfume industry continues to use immense quantities of oil of lavender. In the Middle Ages, it was thought that lavender water on the head would keep the wearer chaste.

For centuries, diligent housewives have used dried lavender blossoms in sachets to scent linens and repel moths from clothing.

Kinds of lavender

Because lavenders have been grown for many centuries and in many lands, their names have fallen into considerable confusion. In the simplest terms, there are three species in cultivation: dentate (usually known as French), Spanish, and a complex group usually known as English. All are fragrant, but the English kinds are considered sweetest; dentate and Spanish have a piny, resinous tang.

Dentate lavender (*Lavandula dentata*) is usually called French lavender, a name which has been employed also for other lavenders, to the great confusion of gardeners. It is easy to recognize because its leaves are finely and evenly toothed (see the photograph at top right). Its flower spikes are short (1 to 2 inches long) with lavender-purple bracts at the top. Plants reach 3 feet in height and bloom over a long season—nearly all year in mild-winter areas. Two forms exist: the common, which has gray leaves, and a green-leafed form that is usually called 'Green Dentate'.

Dentate lavender endures only moderate frost and will need to be grown in pots and treated as an indoor-outdoor plant in the Northwest and the mountains.

Spanish lavender (*L. stoechas*) has short gray to gray-green leaves ½ to 1 inch long and thick inch-long spikes of dark purple flowers topped by a tuft of narrow, wavy petal-like bracts. Flowers appear in early summer on compact plants 1½ to 3 feet tall. This is the lavender of the ancients; two quaint medieval names for it are cassidony and stickadore. *L. pedunculata* (*L. s. pedunculata*) has longe flower stems, stouter flower spikes, an larger tassel-like bracts.

"English" lavenders include the commo lavender (*L. angustifolia,* also ofte called *L. officinalis, L. spica,* and *L. vera* and a number of hybrids between it an a little-grown plant called spike lavende (*L. latifolia*).

Common English lavender grows 3 to feet tall and as broad. In summer, th plants send up a profusion of slende stalks topped by long, thin spikes withou petal-like bracts.

Another tall lavender of similar style i sweet lavender, sold as *L. heterophylla* which differs in having a nearly contin uous blooming period in mild climates Dwarf varieties include 'Hidcote', slow growing to 1 foot with whitish gray leaves and dark purple flowers; 'Munstead', to 18 inches, with early summe flowers of deep blue; and 'Twickel Purple', 2 to 3 feet tall, also with deep purple flowers.

Drying cut flowers

To dry flowers, cut when first blossoms open or when spikes are in full bloom; hang to dry in a cool, shady place, or strip flowers from spikes and dry on screens or trays.

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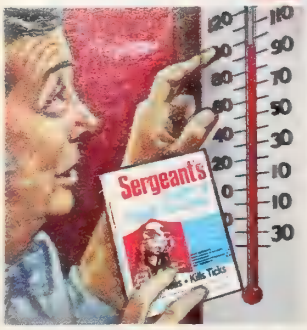
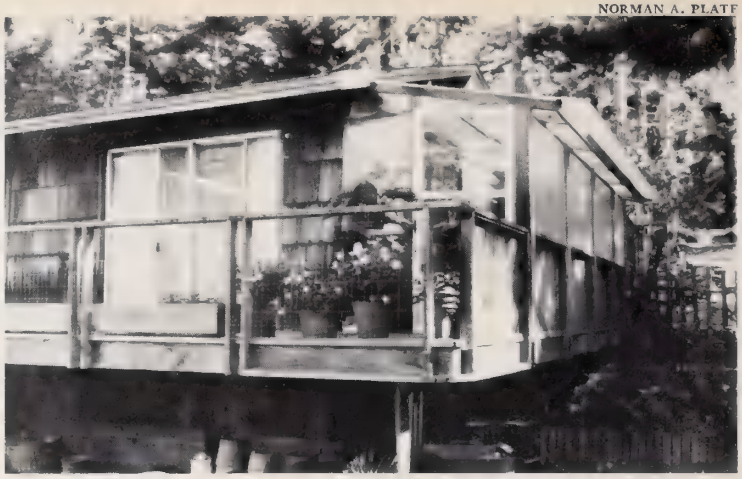


Your pet needs extra protection during the peak flea season. When the weather gets hotter, the fleas get more active. So dogs and cats need a flea and tick collar that's temperature-sensitive. They need *Sergeant's® Sentry V®* Flea and Tick Collar. It's the only collar that actually offers two different ingredients: one that gives steady protection, and one that gives extra protection when the weather gets hotter. Take care of your pet this summer. Get the flea collar that works harder when it gets hotter: *Sentry V* Flea and Tick Collar from Sergeant's.

Your home needs flea protection this summer, too. *Sergeant's®* introduces an incredible weapon against the fleas that multiply in hot weather and infest your house. It's called *Sergeant's "One Shot" Indoor Fogger,* and it obliterates exposed fleas, ticks, even roaches and ants in just one shot. Just set it off and leave the house while it searches out and destroys fleas where they live: in your carpets and furniture. Don't let the pests take over this summer. Get *Sergeant's "One Shot" Indoor Fogger.* You know it works because it's from Sergeant's.

Certain vitamins literally "wash out" of the body when we are under stress or perform strenuous exercise. They're called "water soluble" vitamins and among them are essential Vitamin C and the B-complex. Another important nutrient we lose from heavy exercise is the mineral Zinc. Which is why many active athletic people take *Z-BEC®*. Look at the name: "Z" is for Zinc, "B" is for the B-complex, "E" is for Vitamin E and "C" is for Vitamin C (600 mg.) in each tablet! Look for the high potency Z-BEC formula at your pharmacy, for the nutrition that high-energy people need, but can't store.

NORMAN A. PLATE



West end o *enclosure o onto deck. containers, wheelbarro other large garden tool stored unde the deck*

Roofed *and partially wa with fibergl 6- by 18-foo deck is gara workshop, complete w storage cabi potting benc pegboard fo tools, shelve for potted p*

Garden workshop . . . an enclosed dec

By enclosing a deck off the south wall of this house in Carmel, California, the owner gained a garden workshop. This sun-heated enclosure provides room for container plants; a potting bench; propagating bed; wall storage for garden tools; bins for potting mix, peat moss, sand; and a cabinet for fertilizers, garden sprays, seeds, bulbs.

The enclosed area is about 6 feet wide by 18 feet long. Its translucent corrugated fiberglass roof starts at 8 feet high against the house and slopes outward on a frame of 2 by 4's to 7 feet. The outside wall, divided horizontally by the dec 2-by-6 railing, consists of fibergl above the rail and grooved exterior re wood plywood below.

The combination of a cool coastal c mate, partial morning shade from tre and a 4-inch gap between the roof a top of the outside 2-by-4 frame provid adequate ventilation except during u seasonally warm weather. Also, doors both ends have glass panels that sli open to let air in through windo screens. The propagating bed is botto heated by electric heating cable.

COMPLETELY YOURS, $6966*

HE CHOICE OF FOUR.

The nifty car attracting admiring glances below is the '82 Cavalier Coupe. And Cavalier offers three other admirable body styles: An elegant 4-door sedan, slick hatchback and spacious station wagon. And they all feature front-wheel-drive traction for snow, mud or wet streets.

HE 43 STANDARD FEATURES.

Cavalier is the most fully equipped new car we've ever introduced. Included are a push-button radio with quartz digital clock†, trip odometer, side and rear window defoggers, remote trunk release, reclining contoured front seats, power front disc brakes—and a grand total of 35 more. †May be deleted for credit.

HE ROOM FOR FOUR.

Cavalier's 101-inch wheelbase not only results in a smooth ride, but in an interior with more passenger room and luggage area than cars like Datsun 210, Toyota Corolla or Honda Accord. (The trunk actually holds up to eight good-size pieces of luggage!)

THE MILEAGE.
42 EST. HWY 26 EPA EST. MPG

As you can see by its EPA mileage estimates, Cavalier's 1.8 Liter high-compression 4-cylinder engine offers you the kind of efficiency today's driving realities demand. Use estimated MPG for comparisons. Your mileage may differ depending on speed, distance, weather. Actual highway mileage lower. Chevrolets are equipped with GM-built engines produced by various divisions. See your dealer for details.

THE PERFORMANCE.

There's something else you should know about Cavalier's newly developed engine. Despite its small size and weight, it delivers more horsepower per liter than some highly regarded V8s. Yet, remarkably, Cavalier requires less horsepower to cruise at 50 MPH than most other production cars on the road today.

THE QUALITY.

Laser beams measure body fit. Robots inspect for weld integrity. X rays scan interior construction to assure alignment of interior parts. And each Cavalier undergoes over 1,000 quality inspections before it leaves the factory.

THE INVITATION.

By now you'll understand why we displayed Cavalier's price so boldly in the headline. It's an attractive price for the most complete new car we've ever introduced. And when you test drive it at your Chevy dealers, you won't feel complete until it's yours.

*Manufacturer's suggested retail price including dealer prep for the Cavalier 2-Dr. Coupe. Tax, license, destination charges, and optional equipment are additional.

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Chevrolet

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Your own gging system

for fuchsias, ferns, and other mist lovers

DAVID STUBBS

Fog whenever you want it *helps humidity-loving plants survive dry summers. Next step here is to paint pipe to match the dark beams*

days are hot and dry, have you enced trouble with fuchsias, ferns, her plants that do best in moist, r? You could move to San Fran- where gardeners rely on the after- og to cool and humidify.

ı can create you own fog. A sim- nexpensive misting system for deck, or greenhouse is easy to n less than a day.

hours, we designed and installed ıe-nozzle setup pictured here. It and humidifies plants on a lath- d deck area 10 feet square. Cost: o add a second nozzle for another quare feet would cost approxi- $9 more.

oncept is simple: a hose as a water at one end (instead of a more ex- e plumbing connection) and misting nozzle or nozzles at the connected by PVC (polyvinyl de) plastic pipe.

erate the system, just hook up the ınd turn on the water for 5 min- r so. Repeat aş often during the day as the air temperature and dryness and the needs of your plants dictate. (This is not a substitute for watering.)

Design your own system

Place the hose connector at a convenient height. Space the misting nozzles at intervals double their spray radius—if the nozzle is rated at a 6-foot radius, for instance, put nozzles 12 feet apart.

Place them at least 2 feet below a patio cover or lath strips—more if possible, but not so low someone could bump into them—so the misty spray doesn't hit the cover and turn to large drops.

Join the hose connector and nozzles with ½-inch-diameter schedule 40 PVC pipe, using right-angle "ells" (elbows) and "tees" to run around corners and to cross beams and posts on your patio cover or greenhouse structure. This pipe withstands water pressure. Saw the pipe to length with a hacksaw and make the connections by gluing the lengths to the ells and tees with the easy-to-use cement sold for the purpose.

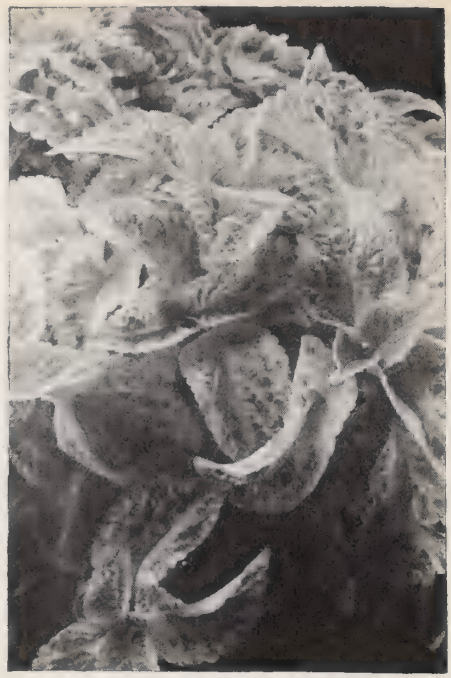
A plumbing supply or building materials dealer can advise you on the components needed for your specific system.

One caution: in the hose connector, use a washer with a fine-mesh screen to filter debris out of the water. The smallest particle can clog a nozzle. (If it does clog, unscrew the connector, remove filter, and clean out the debris.) The screen also keeps insects out of the pipe when the hose is disconnected.

To mount the plastic pipe to posts and beams, use metal straps or perforated aluminum or copper tape. Attach to the structure with 1-inch nails or round-head screws. Paint straps and pipe to make them unobtrusive. □

Inexpensive misting system *depends on hose connector with mesh water filter (left) and brass misting head (right). Easy-to-assemble connection between them, in whatever configuration your patio requires, can be made from PVC pipe*

Saber Golden: *long, deeply lobed leaves shaded light green, gold, and ivory clothe this naturally bushy basket plant*



Pastel Wizard: *broad leaves of yellow with chartreuse markings grow thickly on a compact plant*

Fiji Scarlet: *bright scarlet leaves are fringed in light green. Pinch this one's tips for dense growth*

Plant breeders' triumph: coleus that w

New breeds make the venerable coleus —the colorful bedding plant for partial shade—better than ever for hanging baskets. As these photographs show, coleus depend on their leaves—not their flowers—for their fame. And the leaves come in innumerable combinations of yellows, apricots, oranges, reds, cream, greens, purples, and browns.

Plant breeders finally have solved the two problems that made it difficult to grow most coleus in baskets: legginess and upright growth. Varieties that resist getting leggy and have flexible stems are described in the box at right, and some are pictured on these pages.

These coleus, instead of reaching for the sky, drape themselves into full, rounded basket plants, eventually hiding their containers. The newly purchased plant in the big photograph will cover its basket within a month or so. (You can encourage some other varieties of coleus to trail somewhat by frequent pinching of erect branches to force plant growth downward.)

An unfussy plant, coleus needs fast-draining soil mix, deep watering, and occasional feeding with a complete fertilizer. Its only consistent enemy is hot sun, so grow it in partial or light shade (such as under a lath cover), or indoors in bright light but not direct sun. Too much sun will cause leaf browning and bleached leaf color.

Because they grow quickly, you can buy small plants now and put four to a basket—or buy them in 8-inch containers (like the one in the big picture at right) for about $4 to $6. If you transplant into your own basket, use packaged potting mix; be gentle with the stems—they can break off easily.

Though coleus plants are actually tender perennials, most gardeners them as annuals. Except on the frost California coast (zones 17 and 24 i *Sunset Western Garden Book*), toss out when winter comes and start a in the spring. Or you can take tip tings in fall before first frost, root in water or other rooting medium, grow them indoors until spring.

Which are best for hanging baskets?

When you buy coleus, look for plants labeled with proper names. (Some nurseries don't list varieties on labels. Consult the nurseryman or bring this article with you and compare plants with our photographs.)

Here are some kinds that are well suited for hanging baskets:

Saber. Nurserymen find that this compact strain with long, pointed leaves is an excellent choice for baskets. These plants come in nine color combinations.

Wizard. Wide leaves come in 10 color combinations.

Poncho. So far, only Scarlet Poncho is available in this new strain which has large scarlet leaves edged in chartreuse on long, cascading stems.

Nonhangers to consider. Other coleus varieties, not bred specifically for hanging baskets, nevertheless attract interest because of leaf color or shape. Those named below can be used in baskets if their upright stems are pinched frequently to direct growth outward and downward. Consider Fiji varieties, small-leafed Carefree types, miniature Seven Dwarfs, ripple-leafed Red Monarch, and an old favorite—Rainbow—available in 17 color combinations.

Red: *brilliant red leaves with green in center and on edges from flexible, trailing stems*

sket-hang

an buy at nurseries, or grow easily seed. For free catalogs, write to tlee Burpee Co., Riverside, Calif. 2; Geo. W. Park Seed Co., Box 31, nwood, S.C. 29647; Stokes Seeds, 48, Buffalo, N.Y. 14240. Another e is McLaughlin's Seeds, Box 550, , Wash. 99021; ask for Crystal e catalog, 50 cents. □

off flower buds *at tips of as they appear. This directs s energy into leaf production*

DARROW M. WATT

She's hanging basket *of Rose Wizard coleus. An 8-inch plant like this costs $4 to $6*

Coasting through summer, we hope. Time to enjoy, almost time to harvest

Sunset's HIGH-ELEVATION GARDEN GUIDE

Like baseball fans in the seventh inning stretch, mountain gardeners can take a moment to relax this month. Summer vegetables and flowers are all planted and growing quickly now. It's time to replace spring vegetables for a fall harvest. Fertilizing, watering, and keeping the garden neat and clean are important jobs now—you'll reap the rewards of your labor with next month's harvest.

A good way to keep fruit-laden branches from breaking

Trees loaded with clusters of ripening fruit are a beautiful (and delicious) sight this month. To keep the branches from breaking under the weight of the fruit, many gardeners prop them up with stakes. The stakes work fine for supporting the branches, but they look unsightly and are easy to knock out if a passerby happens to hit one. Additionally, they're difficult to trim around if your fruit tree happens to be in a lawn area.

Spokane gardener Val Strange sidestepped all of these problems with the limb-supporting method he devised that's shown in the photograph at right. He tied a long 4-by-4 post upright to the trunk of the tree. At the top of the post, he tied ropes down to the fruit-bearing branches to gently support them.

If you try this method on your fruit trees, don't try to pull the branches up; tie the limbs just loosely enough to take the weight of the fruit.

Which hardy perennial flowers are July performers in your garden?

Hardy, flowering perennials are backbone landscape plants in high-elevation gardens. The reason: they provide dependable performance all through the active gardening season with minimal

DON NORMARK

To keep fruit-laden branches *from br this gardener tied a long 4-by-4 post t the tree trunk. Ropes tied to the top o post support branches*

JULY CHECK LIST: *Here is midsummer action*

☐ **Divide perennials.** Lift and separate these perennials (if they seem to need it) when they are past bloom: anchusa, arabis, bleeding heart, candytuft, and coral bells.

☐ **Feed perennial vegetables.** Perennial vegetables such as asparagus and rhubarb should have a feeding of high-nitrogen fertilizer this month.

☐ **Fertilize annual flowers.** Apply fertilizer high in phosphorus and potassium at the rate of about 1 pound of actual elements per 100 square feet of planting bed. Water it in thoroughly.

☐ **Fertilize vegetables.** Use a soluble fertilizer in irrigation water, or place a side-dressing of dry fertilizer in a trench alongside vegetable rows.

☐ **Mulch.** Add to organic mulches as they decompose to save water and slow down growth. Some good choices for mulch materials are straw, pine needles, newspaper, grass clippings, compost, and wood shavings or chips. Black plastic works well around heat-loving vegetables.

☐ **Plant fall vegetables.** For a harvest that will last into fall, make a second planting of beets, bush beans, carrots, corn, lettuce, kale, green onions, mustard, radishes, Swiss chard, and turnips. Plant winter squash among spinach; it will take over when spinach is harvested.

☐ **Prune cane berries.** After the harvest, remove old raspberry and boysenberry canes as they begin to die down; this permits good air circulation around plants and lessens the chance of mildew.

☐ **Tend fruit trees.** For larger fruits, thin trees with a heavy set of fruit. Spread 2 to 3 pounds of high-nitrogen fertilizer around the drip line of each apple, apricot, cherry, peach, and plum tree and water it in thoroughly.

☐ **Water.** Keep up a regular deep-watering program for lawns, trees, shrubs, and ground covers. See page 117 of last May's *Sunset* for an article on water-saving low-volume irrigation systems.

ds of care and watering.

ike you to nominate your five fa- hardy perennial plants that bloom onth. Tell us why you like them at special care you give them. Ad- our list of favorites to the Moun- arden Editor, *Sunset Magazine*, Park, Calif. 94025.

k and easy garden work center

middle of a busy summer garden- ternoon, it's a pleasure to have ols close at hand. Denver garden- orge and Phyllis Corchary's out- work center—an 8-foot railroad on end, with hooks and nails for nd a hook for the hose—would y to duplicate in any garden.

ke the center, the Corcharys bur- e end of the tie about 2 feet deep. handled tools such as pruners, s, and weeders hang from hooks ails, and long-handled tools such s hang from the top of the railroad water line and hose bibb have been nt out to the tie; the hose hangs on de of it.

l feeder tops off the garden work . The Corcharys secured the feeder of a metal garbage can lid—this s bird seed and keeps it from scat- around the garden.

nunity gardens in Salt Lake?

ake gardeners, here's your chance in on the ground floor of the first- community gardens in your city. nunity gardens have been operating ny other cities for years. Some of ell-known benefits of community n participation are an increased of neighborhood unity and, of e, a supply of fresh flowers and ables for people without the room perience to grow their own.

ake's pioneer community garden- ffort is being coordinated by the Arboretum of Utah, 018 Green- , Salt Lake City 84112. Call them 1-5322 for more information.

Colorado Natural Heritage ntory needs your help

Colorado Natural Heritage Inven- (CNHI) studies four phases of na- in Colorado: special plants, plant nunities, special animals, and geo- features. The purpose of the CNHI preserve rare or endangered plants nimals, as well as geologic features nique beauty or significance.

rado residents are encouraged to ibute to the inventory if they have ledge of the plant communities or al plants of Colorado. If you feel could be of help in this important , contact the CNHI at 1726 npa St., Suite 307, Denver 80202; (303) 623-1913. □

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Shows and sales in three states

NORTHERN CALIFORNIA

Saratoga. Events at the Saso Herb Gardens, 14625 Fruitvale Ave. Reservations are necessary; telephone (408) 867-0307.

July 5. Herb lecture tour from 1 to 4. Fee: $5.

July 11 and 18. Two-day workshop on culture and use of various herbs; from 9:30 to 3 both days. Fee: $30. Bring a bag lunch and cup.

July 16. Workshop on creating wreaths of dried flowers and herbs from field and garden; from 10 to 2. Fee: $25.

San Francisco. July 11. Show and plant sale presented by the San Francisco branch of the American Fuchsia Society. Place: Hall of Flowers, Golden Gate Park, Ninth Ave. and Lincoln Way. Hours: 10 to 4. Admission is free.

Santa Rosa. July 11. Fuchsia show and plant sale presented by the Santa Rosa Fuchsia Society. Place: Luther Burbank Art and Garden Center, 2050 Yulupa Ave. Hours: 10 to 4. Free.

Sacramento. July 11 and 12. Show by the Sacramento Gladiolus Society. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

Daly City. July 25 and 26. Annual show and plant sale by the San Francisco branch of the American Begonia Society. Place: Serramonte Shopping Mall. Hours: 10 to 6 Saturday; 11:30 to 5:30 Sunday. Admission is free.

Santa Rosa. July 27 through August 9. Annual flower extravaganza at the Sonoma County Fair and Exposition. Place: Hall of Flowers, County Fairgrounds. Hours: 10:30 to 10:30 each day. Admission to fair: $2; ages 13 through 16, 50 cents; 12 and under, free.

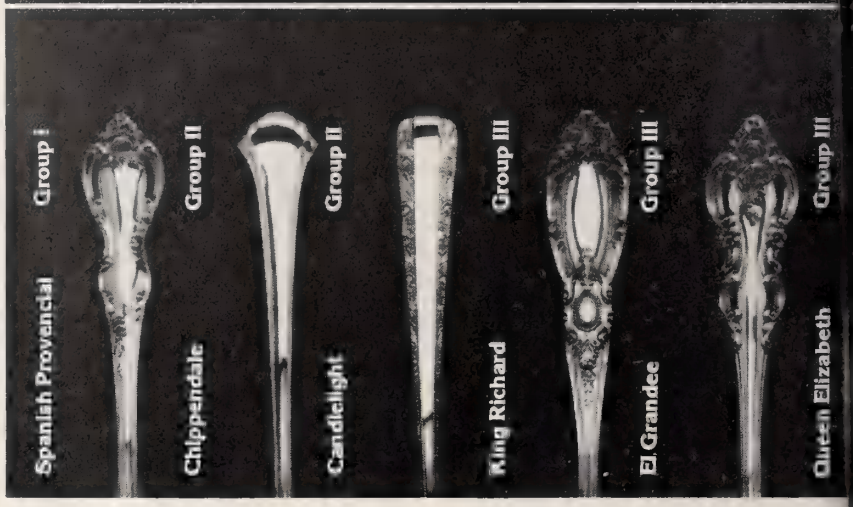
COLORADO

Denver. July 18. Daylily show by Region Nine of the American Hemerocallis Society. Place: Denver Botanic Gardens, 1005 York St. Hours: 1 to 5. Free.

Denver. July 23. Tour of Denver area gardens presented by the Denver Botanic Gardens Guild. Hours: 9:30 to 5:30. For tickets ($6), call (303) 575-2547.

UTAH

Salt Lake City. July 15. Lecture-walk on tree culture with W. Richard Hildreth, director, State Arboretum of Utah. Meet in front of the Arboretum Center, University of Utah, at 7 P.M. Free. □



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Getting railroad ties to curve ... cut them into wedges

Railroad ties cut into wedges form the fan-shaped curves of the walkway you see pictured at right and in color in this month's Garden Guide.

Cutting old, creosote-laden ties is hard, grubby work that requires strong arms and back and exactly the right equipment. Use a gasoline-powered circular saw (also called a gasoline cutoff saw) with a carbide-tipped blade. Such a saw weighs about 35 pounds. (Do not use an electric saw or a chain saw.)

This kind of saw rents for about $40 to $60 a day in California, $20 to $40 elsewhere. A 12-inch carbide-tipped blade rents for about $12 per day, sells for about $80.

Such saws are widely available at rental firms in Southern California, but they're more difficult to locate elsewhere. (You could have a landscape contractor, carpenter, or lumberyard do the cutting.)

This work demands sturdy boots, long pants, gloves, and eye protection; you may want to wear ear protectors, too.

The photographs below show how to get four wedges from each 8-foot tie. The pathway pictured above right was designed and installed by Dave Shaffer of Master Landscaping in San Juan Capistrano, California. He laid the ties o rolled 2-inch bed of decomposed gra

Railroad ties are sold at some buil and garden supply centers.

NORMAN A. I

Wedges cut *from railroad ties form the curves in this walkway*

BILL

1 · *Cut tie in half. To cut through a standard railroad tie, you must cut from top and bottom*

2 · *Using a board or straightedge as a guide, mark diagonal across each tie half on top and bottom sides*

3 · *Make ½-inch-deep diagonal cut to hold saw steady; then cut as deep as possible. Repeat on other s*

4 · *One tie yields four wedges. Fit them together tightly, or fan them farther apart to leave room for plantings of ground cover between*

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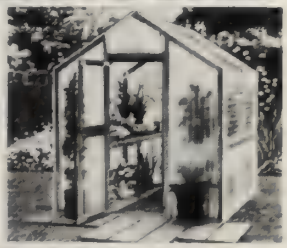

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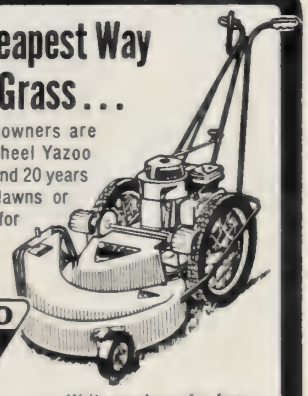

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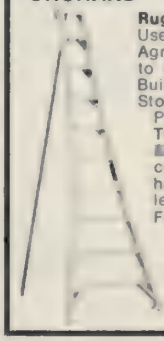

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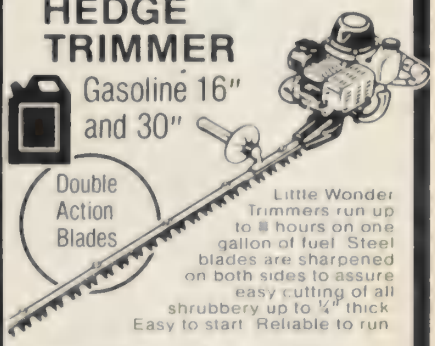

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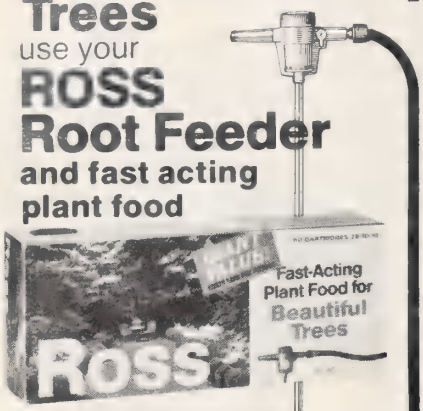

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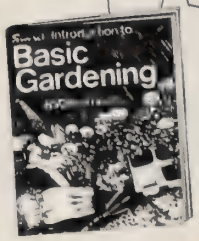

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Cream-colored blooms *adorn evergreen dogwoods June to August. In fall, dusty rose berries (right) deck foliage. Fruit attracts birds and squirrels, is edible for humans, but bland; uneaten fruit falls to ground. Some leaves die, hang on into spring. Garden of Dr. Robert Avery, Los Altos, California*

The evergreen dogwood is a showoff, in summer and in the fall. Now's a good time to plant one

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The ones in the top photograph are years old, but the owners say the pla were this big after about 13 years. T planting extends over a 66-foot-lo strip between house and street. F plants were spaced at 11-foot interva each is now about 20 feet tall and feet wide. They require watering twi weekly in summer, infrequent pruni to remove dead and crossing branch and watersprouts, and a winter applic tion of steer manure. The owners l dead leaves accumulate as mulch.

Fall is best planting time. Trees are on occasionally available in nurseries. See can be purchased mail-order from Cly Robin Seed Co., Box 2855, Castro Va ley, Calif. 94546; send $2 for catalog.

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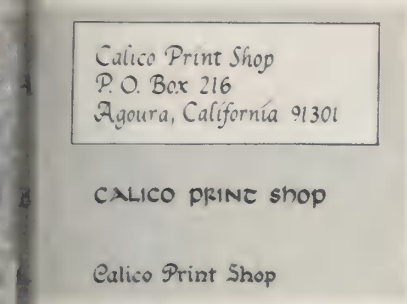

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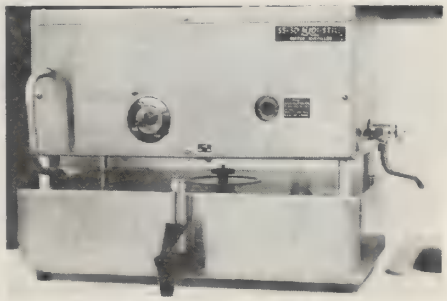

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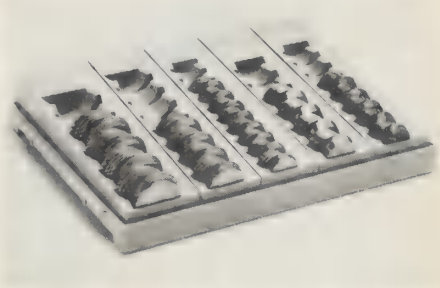

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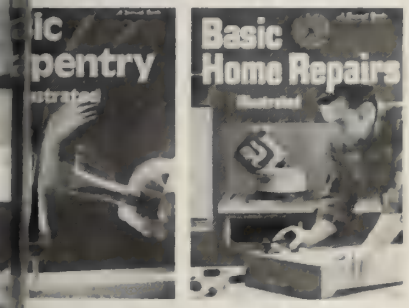

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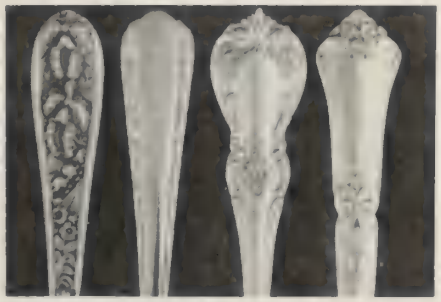

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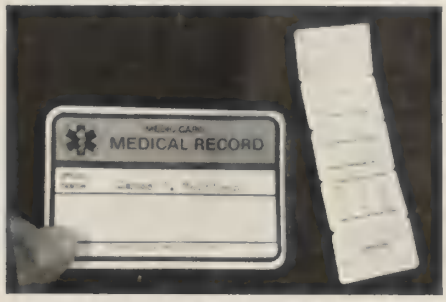

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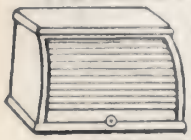

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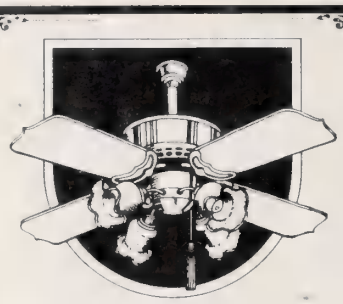

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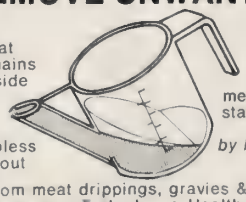

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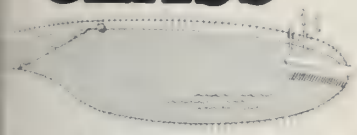

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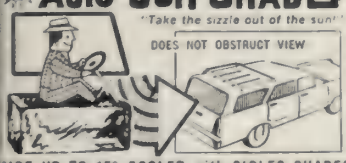

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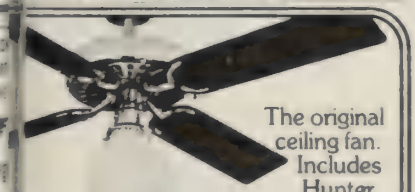

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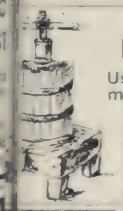

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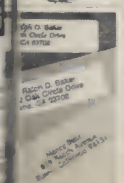

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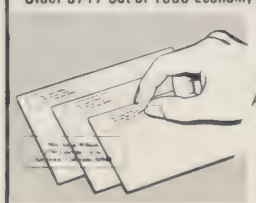

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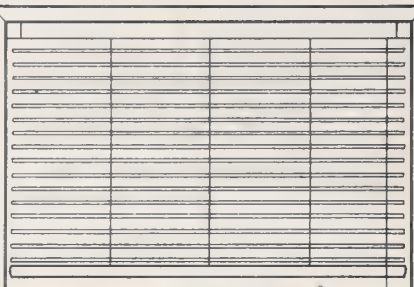

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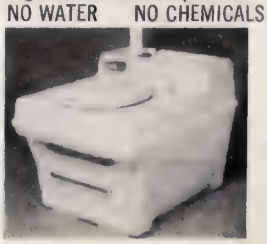

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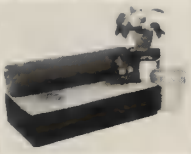

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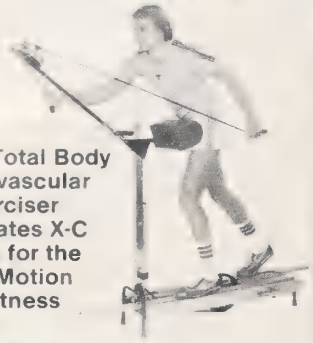

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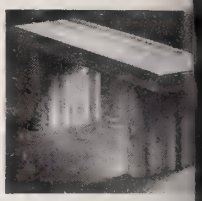

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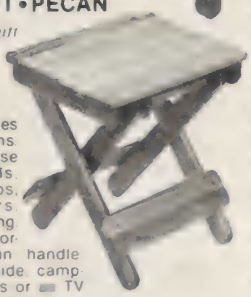

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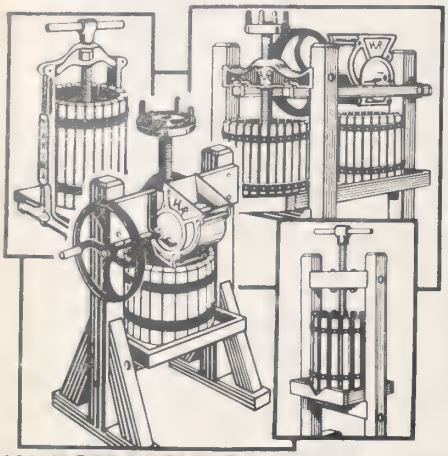

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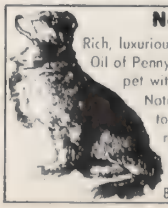

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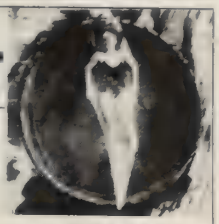

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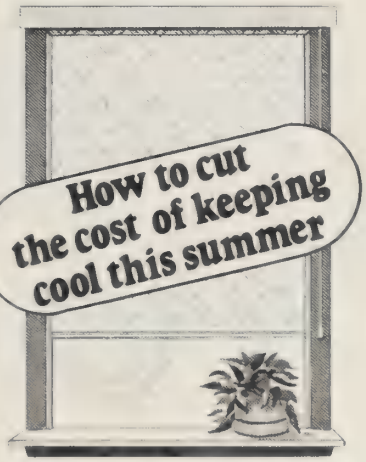

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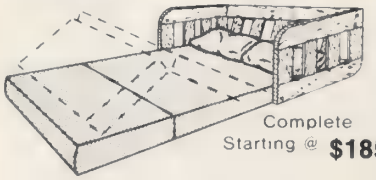

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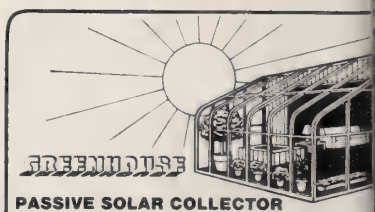

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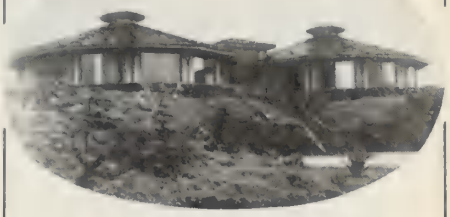

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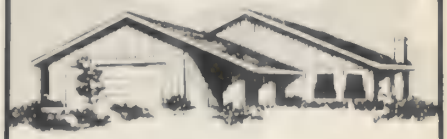

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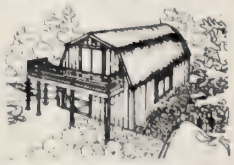

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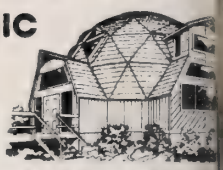

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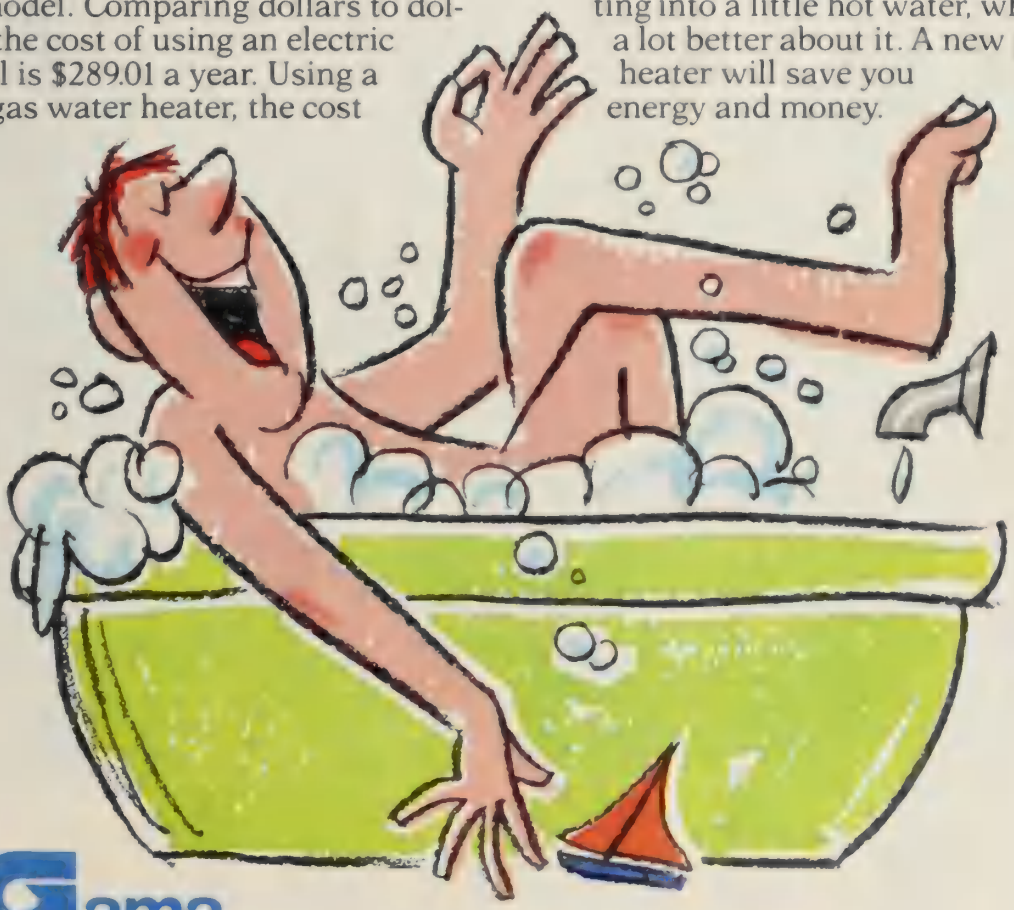

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*Comparisons are based on the average conditions specified in the Department of Energy test procedures as applied to units whose capacity is used predominately in residential applications.

KEITH GUNNAR

September 1979: Cougar Lakes territory

JERRY FREDRICK

April 1981: downtown Oakland

July 1980: Idyllwild

BILL ROSS

LETTER FROM *Sunset*

Which article in your *Sunset*

For three days in September 1979, Sunset's Northwest Editor Jim explored the proposed Cougar Lakes Wilderness in Washington. S weeks ago, Associate Editor Kathy Brenzel could be seen poking a downtown Oakland for days on end, taking notes. During the las summers, Assistant Editor Peggy Bernal made several trips fro Los Angeles office east to Idyllwild to take in theatrical and other e and reconnoiter the adjacent San Jacinto Wilderness.

Each expedition—just the tip of an iceberg of research, intervie and evaluation—was launched with this month's *Sunset* in mind. was successful, and we're publishing all three of them this month you'll find the results of only one in the issue you're holding.

To see for yourself, turn to page 58. Which article you find ther pends on where you live and how handy the destination is to you.

If you live in the Northwest and northern Rockies, page 58 beg four-page report on the Cougar Lakes territory. On the same page Central edition—whose focus ranges from northern California to C rado—this month presents a major urban experience: what's ne burgeoning Oakland. And also on page 58, readers of our Sout California and Desert editions get a look at the attractions of Idyl and the nearby high country.

This is just one example of *Sunset's* long-standing policy of regior ing, or "zoning," many of our editorial pages to tailor the mag to the reach and needs of readers all around the West.

We typically zone several travel articles each month. This starts our very first editorial pages, where our opening travel section (see 5) is wholly different in each of our four regional editions. Our clin based gardening pages, of course, differ substantially from editio edition. And building, food, and outdoor living pages also can cha

Such editorial diversity is nothing new for *Sunset*. We've been doi since 1932—one of the very first major magazines to do so.

Sometimes a zoned article has two or three lives. A briefer form of report on Idyllwild, for example, may turn up later in other editions long-distance travel opportunity—but rechecked and updated for vance and reliability.

When you've finished your first reading of this month's *Sunset*, might exchange it with a friend or relative in a different part of West. The difference in content may surprise you.

Meanwhile, as July 1981 goes by, many of our editors and photo phers are in the field preparing for locally useful and informative cles for later this year, for 1982, and in some cases well beyond.

WINDOW ON THE WEST: *Editors on site*

You've got to know your subject from first-hand experience. At top: Jim Poth strides along a Cougar Lakes trail. An inveterate hiker, Poth has long favored the more demanding North Cascades, but came to this quieter area for a close look at a proposed federal wilderness. Center: Kathy Brenzel (in coat at left) is seen in Oakland, talking with city tour leaders about the changing Victorian Row blocks. Bottom: Peggy Bernal wanders among totemic carvings at an Idyllwild art studio.

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The Cover Story

For this midsummer month, we propose you take the heat out of the kitchen and use the barbecue for a simple meal with a Mexican flair. Detailed on page 60, it features big flour tortillas—filled and toasted to make crisp burritos—and corn cooked on the grill. Photograph by Glenn Christiansen

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LOS · ANGELES

Come to LA and soak up some color.

Bask on beige beaches and swim in bright blue waters in the morning. Then ski winter-white, snow-capped peaks in the afternoon.

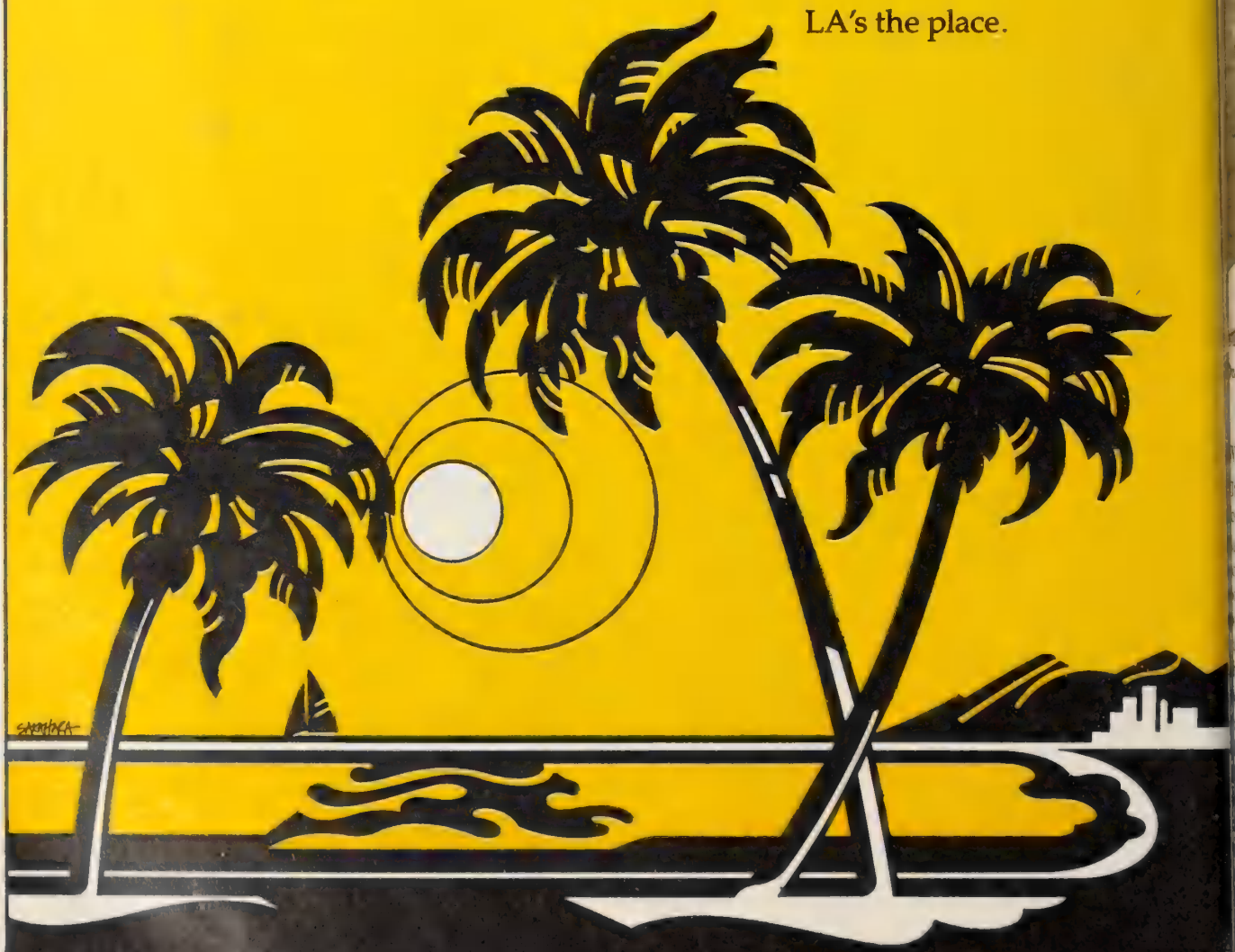
Or enjoy a day of colorful characters at an amusement park and an evening of limelight in Hollywood.

Explore earth-toned deserts or hike green, sun-dappled wilderness trails.

Sip a frosty-white margarita as you listen to a red-hot mariachi band on Olvera Street. Or drink crystal-clear saki served by a geisha clad in a black silk kimono in Little Tokyo.

And just revel in the mellow yellow mood of it all.

LA's the place.



For your copy of the LA Pleasure Packet, write: Greater Los Angeles Visitors and Convention Bureau, 505 S. Flower St., L.A., CA 90071

ugust travel . . . in and beyond the West

GREGG VANCUSO

n collision course, *surfboard sailing students at Berkeley Marina will apply lessons in how to tack, jibe, and—when necessary—bail out*

Windsurfing—where to watch, where to learn

t's just you and the wind, the purest rm of sailing," says one instructor.

iling on a surfboard, you actually be-me part of your craft, swinging the oom with your hands and turning by voting your body. If this challenge lls out to you, there are five places in e Bay Area where you can learn.

nd on July 30 and August 1 and 2, you n watch some 75 surfboard sailors at e Berkeley Marina in such events as e triangle (a three-point course) and ng-distance races, and freestyle or trick ompetition. The action begins each day noon, wind conditions permitting; to heck, call Windsurfing Berkeley at (415) 41-9463. Admission is free.

or more regular windsurfer watching, here are several popular spots around e Bay: San Francisco Marina, the Fos-r City lagoon, the Sausalito harbor, nd Berkeley Marina. Places to learn are andy, too. All that's required: you must know how to swim and weigh at least 85 pounds (to have enough weight to control the sail). Those under 18 also need parental permission.

How hard is it to learn? Schools we surveyed say most students learn in 4 to 6 hours. Good balance and strong arms will help you.

Usually lessons progress from a dry-land lecture on wind and technique to practice time on a dockside simulator, then into the water for tacking (sailing upwind) and jibing (downwind). Expect to be provided with a 60-pound board and sail and a wetsuit; you bring a swim suit and tennis shoes. Because the board has so much buoyancy, no life jacket is required. You'll sail only in gentle winds (below 15 knots); if it's breezier, your lesson will be rescheduled.

Here are some sources for instruction:

Bay Windsurfing, Redwood Shores, Marine World Parkway, Redwood City; (415)

Clear panel *in sail gives skipper a view ahead; this standard board is like those used for lessons*

We joined up for trail building

Wielding *a Pulaski tool, Mel Lane, publisher of Sunset Books, digs in with other trail-building volunteers*

While researching an article on volunteer trail building in the West, *Sunset* editors discovered a source very close to home. A group of employees (and families) from Lane Publishing Co. headquarters in Menlo Park, California, were planning a trail-building day in Big Basin Redwoods State Park. We pitched in.

With advice from the Sempervirens Fund, an organization devoted to preserving parkland, the volunteers spent a day building a stretch of the new Lane-Sunset Rim Trail (scheduled to open by early fall). Most crew members found the work tough but satisfying. One said it made her feel "virtuous . . . but very thirsty."

To find out about opportunities for volunteer trail work, see page 62.

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595-2285. Lessons cost $55 for two 2½-hour sessions in fairly sheltered slou ns.

Windsurfing Berkeley, Berkeley Mari, end of University Avenue, Berkeley; (4) 841-9463. Lessons cost $55 for two ses ns given between 9 and 2 Saturday and Sunday. You practice in a quiet crescent f water near the Berkeley Marina.

Windsurfing California, Percolation Po s, end of Dell Avenue, Campbell; (408) 866-7873. Lessons cost $50 for two 3-ho sessions given on weekends; or try it out with a free ½-hour sail any Wednesday between 2 and 7. On weekends you can g a private 1-hour lesson for $15.

Windsurfing Marin, 1306 Bridgeway, Sausalito; (415) 332-2777. Lessons cost $5 for two 2-hour sessions in a protected are given daily in light morning winds.

Windsurf San Francisco, Pier 39, San Francisco; (415) 421-8353. Lessons cost $75 for two 3-hour sessions which inclu certification test and license. This is a challenging spot to learn, unprotected fr Bay winds and currents.

Farming history of Santa Clara Val at the Triton Museum all summer

As you drive through Sunnyvale, Sa Clara, San Jose, and on south throu the Santa Teresa hills to Morgan H it's hard to realize how much of this creasingly concreted and subdivided la was agricultural. As recently as 19 some 200,000 acres were planted mostly as small family-owned orchar Now only about 20,000 acres are left agriculture, and the bulk of that is voted to commercial flower productio

To recapture and celebrate the valle agricultural past, a new exhibit will r now through September 6 at the Trit Museum in Santa Clara. More than 2 photographs, including some by An Adams and Dorothea Lange, tell t story of farming's early days and its cu rent predicaments. The exhibit doc ments the successive development various types of agriculture—from i tensive wheat and grain growing to vin yards, vegetable farms, and orchard You'll also see handmade tools and colorful array of early packing labels.

The museum is at 1505 Warburton Av nue, Santa Clara; hours are noon to Tuesday through Friday, noon to weekends. Admission is free.

New strolling and biking shoreline trail in the South Bay

In the past, access to the 22,000-acr San Francisco Bay National Wildlif Refuge has been limited by lack of de veloped trails. But gradually, as fund allow, more of this birdlife-rich acreag is being opened up. This summer, miles of trail—over bridges and board walks along the marsh—have become available to hikers and birdwatchers.

As you walk the new trail, you'll pas exhibits explaining the ecology of a sal marsh, the salt extraction process (you'l see some still-active evaporation ponds), area wildlife, and the consequences of

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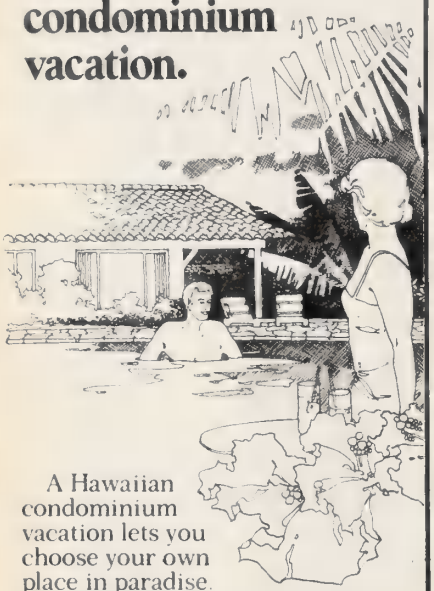

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GREGG MANCUSO

Bay refuge *in Fre[illegible] has opened a new [illegible] through its marshlands. Most of it is [illegible] hard-packed earth [illegible] suitable for biking*

hunting. And you may meet avocets, willets, herons, an occasional marsh hawk; they're most active right around the highest and lowest tides of the day, so check a tide table.

The refuge is in Fremont at the east end of the Dumbarton Bridge; trails are open during daylight hours, and the headquarters interpretive center is open, free, 9 to 6 weekdays, 10 to 5 weekends.

The pipes are calling—from Highland games just west of Denver

The Scottish Highlands are half a world away from the Rockies, but Colorado still seems an appropriate place for clans to gather. On August 8, the Saint Andrew Society hosts the Rocky Mountain Highland Games, those unlikely contests of skill and brute strength.

You'll see the stone put (throwing a [illegible] rough rock), sheaf toss (pitchforkin[illegible] bag of hay into the air), and the r[illegible] pin toss (heaving a heavy wooden [illegible] for distance). There will be a pipe b[illegible] at noon, and Scottish country dan[illegible] all day.

The events take place at Brooks Field[illegible] the campus of the Colorado School [illegible] Mines (at the end of 12th Street in Golden, just 20 miles west of Den[illegible]. Hours are 9 to 4:30; admission is $3[illegible] $2.50 for seniors, $1 for kids under 1[illegible]

On August 7, you can hear a free pip[illegible] competition at 6:30 P.M. at the Foot[illegible] Art Center, 809 15th Street in Gold[illegible] there'll be some 30 professionals [illegible] students wailing away.

For travel planners, an August 1981 check list

Overland between London and Hong Kong. You can travel 9,000 miles by first-class train with stopovers in 14 cities such as Paris, Moscow, Irkutsk, Ulan Bator, Peking. Cost for an escorted 42-day journey is $4,530, including meals, sightseeing, hotel accommodations, and train sleepers (10 nights). Weekly departures in September and October are heavily booked. New season starts late March 1982. Book with Baylis & Todd, Claremont Hotel, Berkeley 94705; (415) 849-4333.

Baja wilderness expeditions. Whale-watch, dive, and fish in the Sea of Cortez aboard the 80-foot *Don Jose;* ride or hike with pack animals through rugged mountains to caves with Indian paintings. Trips from 7 to 15 days are led by naturalists or scientists; the cost ($45 to $115 per day) is partially tax-deductible. Write to Boojum Institute, Box 3725, San Diego 92103; (714) 297-0506.

Polar bear encounter in Canada. On two-day sojourns in Churchill, Manitoba, this fall, you can see migrating bears—they wait here for the freeze to do their winter hunting from the ice. Cost of $220 includes meals, hotel, travel by open-top snow bus. From April through August 1982, 7- to 15-day trips also offer Arctic fishing, other wildlife watching, meetings with Inuit people, and a flight to the North Pole. Write to Special InteresTours, Box 37, Medina, Wash. 98039; (206) 455-1960.

Wunderful Germany. On a seven-day wunderbuggy tour, restored horse-drawn landaus or stagecoaches take groups through Bavaria. Cost of $1,139 includes hotels, meals, and escort services. On a wunderbike tour, bicyclists pedal seven days, 25 to 34 miles a day; the cost of $725 includes use of touring bike and sag wagon. For car or train travelers, a wunderpackage provides choice of hotel accommodations ($19.50, $32, or $39 per day) in 60 locations. Book with your travel agent.

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SHOPPING CENTER beginning page 166

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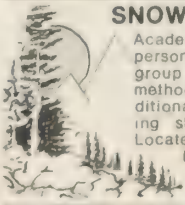

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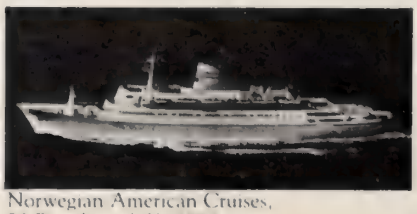

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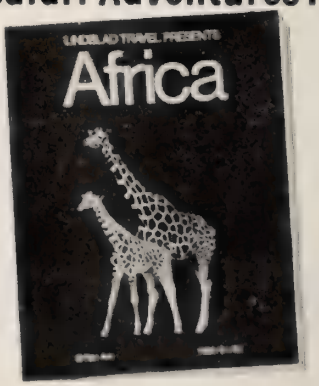

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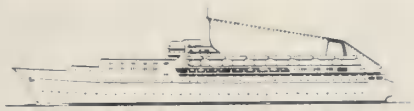

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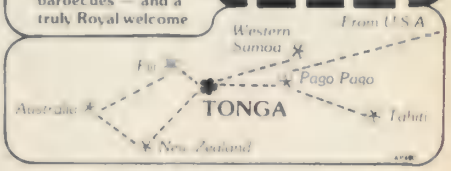

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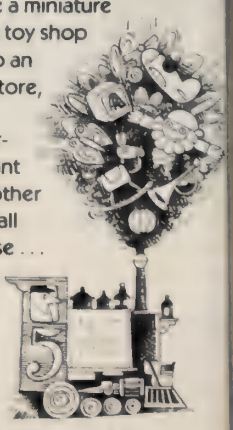

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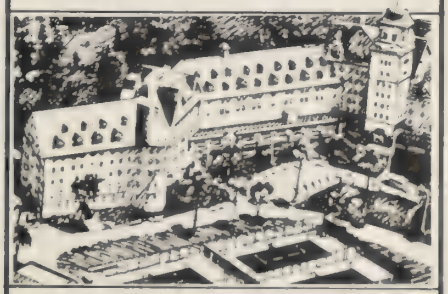

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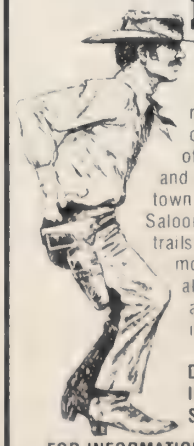

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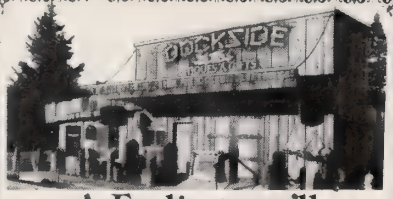

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The Sunset Travel Directory

Arizona Travel

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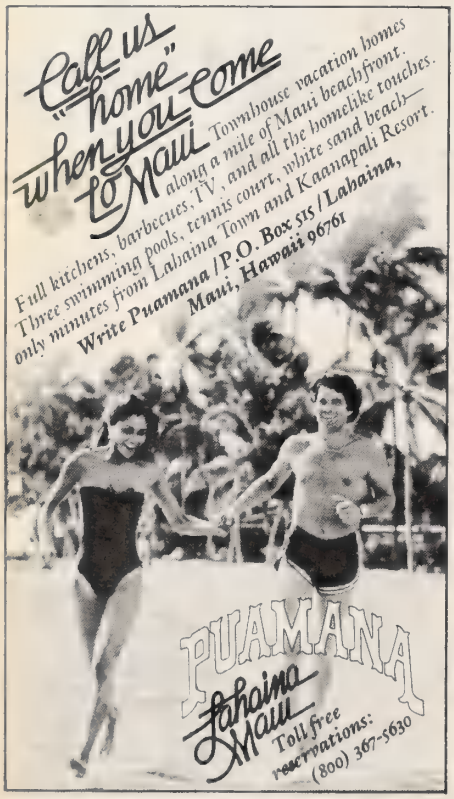

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Antique carousel... 25 in the West

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Phoenix. Encanto Park: 20-horse 19... Herschell. The ride costs 45 cents. Op... 10 to 9 daily.

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Berkeley, Tilden Park: 59 animals (... cluding elk and zebra) on a 19... Herschell-Spillman, with band orga... Ride costs 35 cents. Open 10 to 5 dai...

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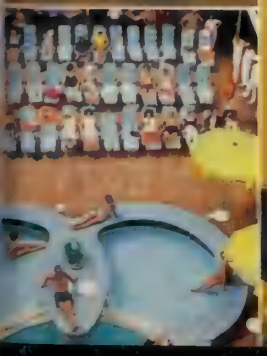

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ınta Cruz, Santa Cruz Beach and ɔardwalk: 72 horses and 2 chariots on 1911 Looff, with 342-pipe band organ. ıst ride costs 60 cents. Open 11 to 10, 1 11 Friday and Saturday.

ɔuthern California

naheim, Disneyland: 72 horses, mostly 375 Dentzel and all jumping, with King rthur theme. Park admission is $4 to 3, ride 10 cents. Open 9 to midnight aily and till 1 Saturdays.

uena Park, Knott's Berry Farm: a pair f turn-of-the-century Dentzel carousels, ıch with 52 animals and a big band rgan. Park admission is $7 to $9.50, ıe carousel ride 25 cents. Open 9 to ıidnight daily.

os Angeles, Griffith Park: 68 horses on 1926 Spillman (one of the biggest in ıe West), with a booming 69-key band rgan. Ride costs 50 cents. Open 11 to 5 aily, till dusk weekends.

an Diego, Balboa Park: 52 animals on 1910 Herschell-Spillman with ring rab. Ride costs 35 cents. Open 11 to :30 daily.

an Diego, Seaport Village: 46 animals including dogs) and 4 chariots on a 1900 .ooff, with big band organ. Ride costs 0 cents. Open 10 to 10 daily.

Santa Monica, Santa Monica Pier: 46 ıorses and 2 chariots on a 1922 Philadelphia Toboggan Company carousel vith 150-pipe band organ. Ride costs 25 ents. Open 10 to 10 daily.

Valencia, Six Flags Magic Mountain: 64-ıorse Philadelphia Toboggan Company gem, built in 1912, has medieval theme. Park admission is $10.95, $5.95 children

(Continued on page 20C)

GREGG MANCUSO

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The Sunset Travel Directory

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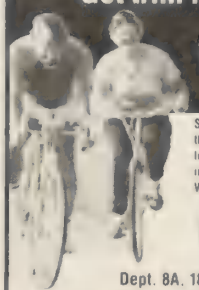

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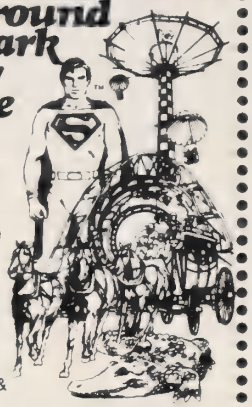

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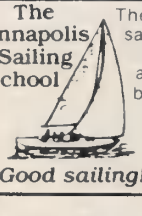

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For Sale

QUAIL HILL

The finest of Western Living. A suburban home and acreage close to Stanford University with excellent horse facilities. Authentic ranch style adobe residence designed by Cliff May for relaxed, easy management. Large modern kitchen, separate dining room, two patios, master bedroom with two large bathrooms and excellent quarters for a housekeeper. Separate log cabin for recreation and entertaining can be remodeled for guest house. Beautifully maintained gardens, lawns and many healthy, mature California oaks. The matchless hilltop location in the Westridge area of Portola Valley offers protected views and direct access to the extensive, deeded riding trails of the San Francisco Peninsula. Total 10 plus-acres with a four-stall stable, large paddocks and a training ring. Potential for subdivision. Contact Edward A. Smith, Hare, Brewer & Kelley, Inc., 642 Santa Cruz Avenue Menlo Park CA 94025. 415/323-4161.

JERRY FRICK

New Chinatown, *new in 1939, is one stop on Saturday guided tours*

Free walking tours of L.A. Chinatown

Now through November, the Chinese Historical Society of Southern California is guiding visitors through L.A.'s Chinatown. The organization offers two tours of today's neighborhood, and of the locations of the four previous Chinatowns, beginning with the first Chinese settlement in the late 1800s.

The New Chinatown route will include a look at the area's early French and Italian settlements as well as its newest, the Vietnamese. The tours of the old Chinatowns will take visitors past such landmarks as the Garnier Building (built for Chinese commercial use) and the remnants of China City, an amusement center for tourists from 1938 to 1948.

The free walking tours will be offered on the hour from 10 to 3 on these Saturdays: August 1, 15, and 29; September 5 and 19; October 3, 17, and 31 and November 7 and 21. Each begins with a slide show that includes historic views of this old part of the city. Tours cover less than a mile and last about an hour.

Reservations are required for all tours. Telephone (213) 256-8330 from 9 to 5 Monday through Saturday, or write Chinatown Los Angeles Project, 214 N. Avenue 66 St., Los Angeles 90042. Indicate which tour you prefer, the new or historic one, and enclose a stamped, self-addressed return envelope. You will receive a confirmation on where to meet.

he World Wildlife Fund announces an original ork of art in fine, hand-painted porcelain

Surprise!

Inaugurating the World Wildlife Fund's first collection of baby animal sculptures in porcelain.

Issued in a limited edition.

Art of exceptional charm and beauty, at the very attractive price of $45.

For the first time in its history, the World Wildlife Fund has undertaken the creation of a collection of porcelain sculptures of baby animals.

Surprise!, portraying a charming little tiger cub, inaugurates the collection. Crafted in fine hand-painted porcelain, it is a thoroughly delightful work of art. And it will be issued at the very modest price of $45—which may itself be paid in two convenient monthly installments of $22.50 each.

This new and original work of art has been designed for the World Wildlife Fund by Eva Dalberg, one of the world's most talented portraitists of animals. Dalberg was chosen for this commission because she has the unique ability to capture the lovable quality of animals.

Here the little tiger is portrayed in an amusing—and totally unexpected situation. With a bright green butterfly perched right on the tip of his nose! This delightful sculpture will be crafted in fine porcelain and completely hand-painted. So, all the colors and features will be clear, crisp and vibrant. The tiger's orange coat and black stripes, his sparkling black and yellow eyes, his striped tail—and, of course, that devilish little green butterfly.

Surprise! will be crafted for the World Wildlife Fund, under the supervision of Franklin Porcelain of Japan. Each sculpture will be crafted in Taiwan and will be backmarked with the official "WWF" symbol. In addition, a Certificate of Authenticity attesting to its official status and bearing the signature of the Director General of the World Wildlife Fund International, will be included.

In the tradition of classic works in fine porcelain, this enchanting sculpture will be made available in a limited edition, reserved exclusively for those who order from the collection of porcelain animal sculptures during 1981. When all valid orders from these individuals have been filled, the edition will be permanently closed.

You'll enjoy displaying this enchanting little tiger in your home and showing it to all your friends. It will be a conversation piece you will treasure. And you will have the satisfaction of knowing that it is created in a long-established tradition. For, of all porcelain pieces collectors prize, small figures of animals are among the most popular.

To reserve *Surprise!* by Eva Dalberg, you should act promptly. Please be sure that your Reservation Application is sent to the World Wildlife Fund, C/o Franklin Porcelain, Franklin Center, PA. 19091, by August 31, 1981.

© 1981 FP

RESERVATION APPLICATION

Surprise!

Valid only if postmarked by August 31, 1981

World Wildlife Fund
C/o Franklin Porcelain
Franklin Center, Pennsylvania 19091

Please accept my reservation for *Surprise!* by Eva Dalberg. This original sculpture will be crafted for me in fine hand-painted porcelain.

I understand that I need send no money at this time. I will be billed in two equal monthly installments of $22.50* plus $1.25 for shipping and handling, the first payment due before the work is sent to me.

**Plus my state sales tax*

Signature _____

ALL ORDERS ARE SUBJECT TO ACCEPTANCE

Mr.
Mrs.
Ms. _____

PLEASE PRINT CLEARLY

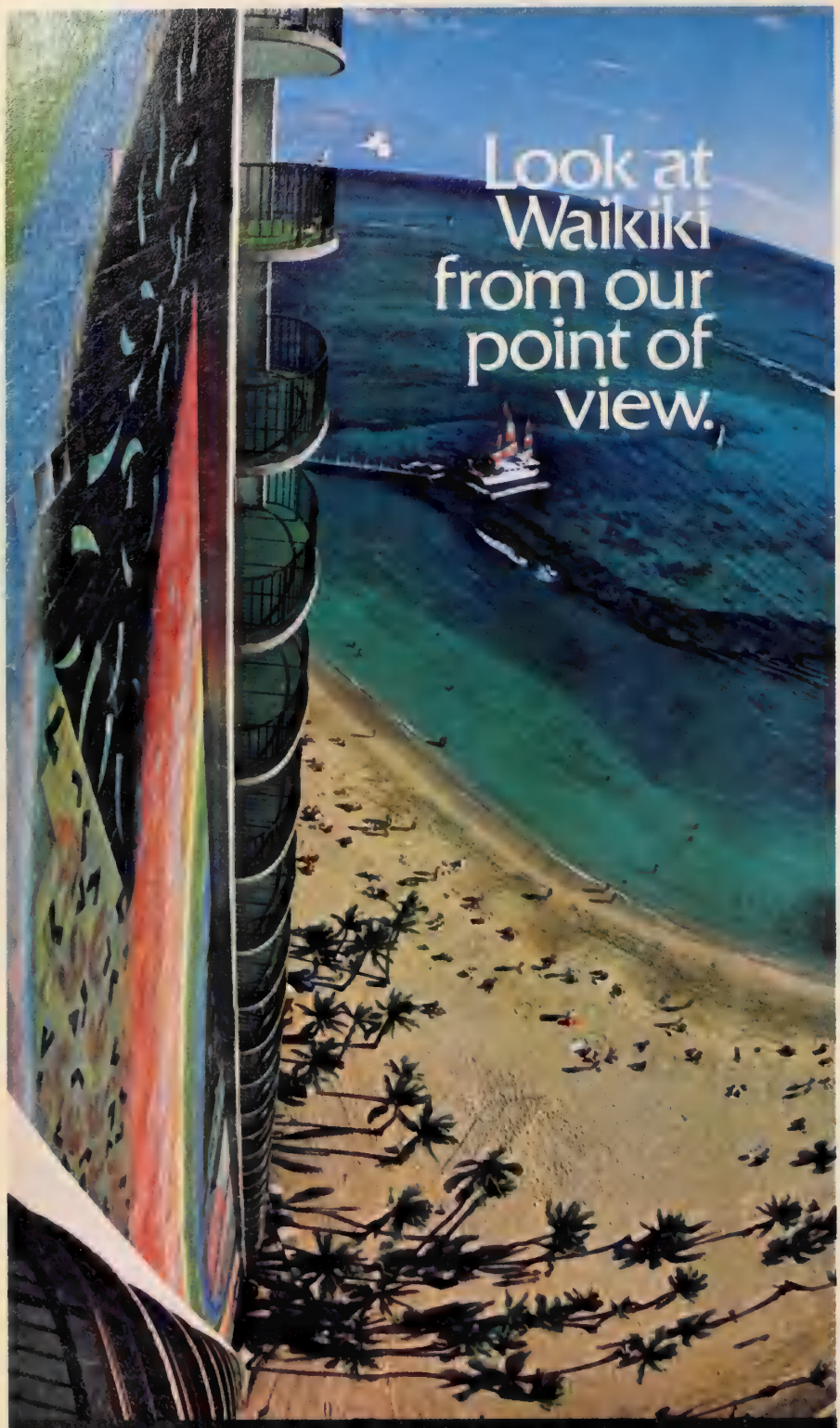
Address _____

City _____

State, Zip _____

Limit: One sculpture per person.

42



On the edge of Waikiki you'll find a whole world inside a Village. The Hilton Hawaiian Village. You can spend your entire vacation here and never miss a thing.

A spacious beach, catamaran cruises and an ocean full of excitement are just out the door. A Rainbow Bazaar full of exotic shops features treasures from throughout the Pacific and the Orient. And eight restaurants assure you a variety of superb cuisine, not to mention the spectacular Jim Nabors Polynesian Review.

All the wonder of Waikiki is just steps away. But wait till you see it from our point of view. The Hilton Hawaiian Village. A world apart.

HILTON HAWAIIAN VILLAGE

Call your local Hilton Reservation Service or your Travel Agent.

New guide to mail ordering

Millefiori paperweights, Omaha steaks, New Zealand woolens, hard-to-find tools, bisque dolls, beeswax creams, sculptured belt buckles, musical coin banks—they all have something in common. So do calico curtains, custom quilts, French cheeses, dulcimer kits, Sioux moccasins, Vermont syrups, lake contour fishing maps, hand-forged hinges, Irish walking sticks, and Amish overshirts (no buttons, and with inside pockets only).

Plain goods to bibelots and sundries (some *very* sundry), they're all part of an immense inventory available by mail order. And to help the time-conscious and gas-conserving shopper, a free master catalog lists hundreds of mail-order firms by product specialty.

This catalog of catalogs is called the *Great Catalogue Guide,* and it's available from Direct Mail Marketing Association, 6 E. 43rd St., New York 10017; just send your name and address, plus 75 cents *in stamps* to cover postage.

After surveying the catalogs of thousands of mail-order firms, DMMA selected about 600 to list in 27 categories. Also included are some tear-out post cards for ordering the catalogs you like.

Last winter we tested the idea by sending cards to 85 manufacturers in 32 states and in all product categories. Within a month, 58 responded. But 18 catalogers took two months to respond, 5 took longer, and by our press time 4 had not been heard from at all. Our conclusion: send for catalogs in August if you want gifts delivered by Christmas. (Incidentally, six of the companies responding asked for a small payment—not mentioned in the *Guide*—for their catalogs.)

When you send for merchandise, there's a way to expedite your order. Federal law requires companies to ship within 30 days of receipt of prepaid orders; this does not apply to credit-card purchases, on which shipment may be deferred until orders prepaid by check or money order have been filled.

If you are not reasonably well served by a company you order from, you have recourse. Submit your complaint, in writing, to Mail Order Action Line, 6 E. 43rd St., New York 10017. Name the company involved and the product you ordered; send a copy of your canceled check; and explain how you would like the matter resolved (merchandise or refund). So far, with well over 25,000 copies of the *Guide* in circulation, there have been no unresolved complaints. □

ANNOUNCING *Cimarron* BY CADILLAC

Quick-handling. Road-hugging. And fun to drive. This . . . is Cimarron. An efficient new kind of Cadillac. With the traction of front-wheel drive . . . MacPherson strut front suspension . . . and power-assisted rack and pinion steering with responsive 14:1 steering gear ratio. Plus, it has Cadillac refinements such as genuine leather seating areas, body-contoured bucket seats, air conditioning and more. All standard. Test-drive Cimarron by Cadillac. Due to limited initial production, Cimarron is not available at all Cadillac dealers at this time.

42 HWY EST | 26* EPA EST MPG

*Use estimated mpg for comparison. Your mileage may differ depending on speed, distance, weather. Actual highway mileage lower. Cadillacs are equipped with GM-built engines produced by various divisions. See your Cadillac dealer for details.

A NEW KIND OF CADILLAC FOR A NEW KIND OF CADILLAC OWNER.

GM

Weather-ravaged *totems assembled from abandoned villages still show artistry of Tlingit and Haida woodcarvers*

Bone awl *helps center staffer as she demonstrates traditional cedar bark basket-weaving technique*

Raven - Fog Woman *totem in front of the Heritage Center is modern carver's interpretation of an old Tlingit legend*

Totems tell stories of the Haidas and Tlingits ... on display in Ketchikan

Silent storytellers of the past, the weathered poles in Ketchikan's Totem Heritage Center are gentle reminders of two almost forgotten peoples. The five-year-old center preserves and exhibits original unrestored totem poles and carved house posts brought in from long-abandoned Tlingit and Haida Indian villages. Some 33 of these venerable sculptures are now on permanent display along with other artifacts of Southeast Alaska's earliest residents.

The cedar museum was designed along the lines of a traditional tribal community house, with totems standing in a "fire pit" beneath a glass-covered "smoke hole" that silvers the carvings with natural light.

Centerpieces of the exhibit are five standing totems rescued from two village sites. The 25-foot-tall Haida heraldic pole is one of the most complex, with eagle, frog, and beaver crests intricately linked to each other. One house post from Old Kasaan, with an eagle claw carved to support a roof beam, is at least 120 years old.

Traditionally, totems were carved to honor a clan, a chief, or an important event. Figures and crests on the poles usually don't tell just one story, but act as symbolic reminders of important events in a clan's history.

Unlike some Northwest Coast Indian arts, totem sculpture is in no immediate danger of becoming a lost art. The striking Raven - Fog Woman in front of the museum was hewn from a single cedar log by Tlingit carver Nathan Jackson.

Along with the museum displays of Indian artifacts, the center offers classes, workshops, films, and lectures throughout the year. Visitors are welcome to observe classes, which teach such traditional crafts as spruce-root basketry and mask carving, or—if time permits—to join in these programs.

The center is open daily except Tuesday from 9 to 5 (1 to 5 on Sundays) June through September, or by arrangement when cruise ships are in port. Admission is 50 cents for adults.

In Ketchikan, most cruise ships dock downtown along Front Street, about a 15-minute walk (a good half-mile) from the museum. For a map showing the center's location, a brochure describing a short native plant walk, and a schedule of events, write to the Ketchikan Totem Heritage Center, 629 Dock St., Ketchikan 99901. □

HOW TO USE A SELF-SERVICE GAS STATION

YOU CAN SAVE MONEY BY DOING SIMPLE CAR MAINTENANCE YOURSELF.

Gasoline or diesel fuel usually costs less at a self-service station. But too many people think that filling a fuel tank is all there is to self service. You'll do your automobile the most good if you also include a few simple maintenance procedures.

Most self-service pumps have easy-to-follow directions printed right on them. Before you drive into a self-service station, it's helpful to know whether your car takes leaded gas, unleaded gas, or diesel fuel, and also where your fuel tank is located, so that you can pull up to the proper pump and have the fuel tank close at hand. The type of fuel your car requires should be printed on the instrument panel, and the fuel tank location can be found in the owner's manual.

If you don't find instructions on the pump, here's what to do at most stations: 1. Turn off the engine. 2. Remove the fuel cap. 3. Remove the nozzle from the pump and turn the pump lever to "ON." 4. Place the nozzle in your fuel tank and squeeze the trigger. 5. When the trigger clicks off, remove the nozzle from the tank and turn the pump lever to "OFF." 6. Replace your fuel cap.

There are some things, however, that the directions may not tell you. Fuel fumes are highly flammable, so you should never smoke at a service station. Also, fuel caps are easy to forget and lose, so when you remove the cap try to wedge it in between the door to the tank and body of the car, where you're not likely to forget it. All 1981 and most older General Motors cars have fuel caps that twist on and then click when secure.

When you're filling up, try to avoid topping off your tank, since it may overflow. If fuel does spill on your car, you should wash it off as soon as possible, to avoid paint damage.

After you fill your tank, remember to clean your windshield. If you've been driving in bad weather, be sure to wipe off your side mirrors and headlights, too.

A quick-maintenance inspection can help you spot potential trouble. You don't need any expensive tools—just a good quality tire gauge, a rag or paper towel, an oil can spout kept in a plastic bag, and a jug of premixed windshield washer fluid, such as GM Optikleen.

To check your engine oil, pull out the dipstick, wipe it clean, insert it again, then pull it back out. The oil should be between the marks labeled "FULL" and "ADD." If it's below "ADD," add a quart of the oil recommended in your GM owner's manual.

You should also check the coolant level. Most GM cars have a see-through recovery tank. If the level looks low, add coolant to this tank. Never remove the radiator cap when the engine is hot, because pressurized coolant may overflow and burn you.

Periodically check your brake, transmission, and power steering fluid levels. Your owner's manual tells you how. Remember to keep the windshield washer reservoir filled with fluid, too, especially in the winter when you use it most often.

Most GM cars are equipped with maintenance-free batteries. But it's still wise to make sure their cables are on tight and the ends aren't frayed. Look for fraying, cracks, or other signs of wear on belts, too.

Look at tires for signs of wear or worn-out edges which can indicate improper inflation or the need for alignment. Once a month, you should use a tire gauge to check the pressure. In GM cars, the recommended pressure is on the left front door edge or inside the glove compartment. Recommended pressure is for cold tires, so check them before you drive more than a mile.

You'll be putting self-service stations to their best use if you include maintenance checks in your stops for gas. Your GM owner's manual can be an invaluable guide to proper car care. Please use it.

This advertisement is part of our continuing effort to give customers useful information about their cars and trucks and the company that builds them.

General Motors

People building transportation to serve people

MARTIN LITTON

Looking south *down long placid valley, you can see 10,587-foot-high Farewell Gap, one of major passes across mountains*

Horse-packing trips *climb from valley into surrounding mountains*

Campsite on the rocks: *rugged terrain near White Chief Lake is typical*

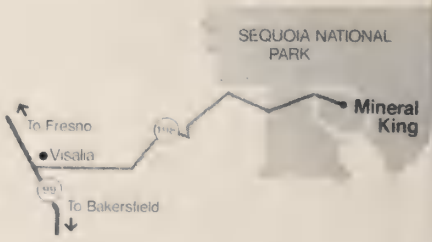
Still controversial, still difficult to get to (700 curves), and still undeveloped (only 55 campsites)

Magnificent Mineral King

Mineral King: glaciers plowed it, avalanches scoured it, miners burrowed its cliffs for silver, and loggers shaved its slopes for wood. Then came the lawyers. When, in 1965, the U.S. Forest Service and Walt Disney Productions came forth with plans to turn Mineral King's 16,000 acres into a highly developed ski resort, irate environmentalists launched a 13-year siege of suits that in turn launched countersuits, environmental impact reports, and Supreme Court rulings, a legal battle nearly as impressive as the landscape being battled over.

The battle may not be over yet: though Mineral King became part of Sequoia National Park in 1978 and though a new draft management plan calls for its 16,000 acres to be kept as little developed as possible, Fresno Congressman Charles Pashayan recently introduced a bill mandating the construction of a ski resort in the area.

But for the time being Mineral King seems likely to be what it has been for most of this century: a quiet place of meadows and mountains and chaste lakes, a place for a relatively small number of determined visitors (developed campsites can hold only 55 groups per night; trails starting at 7,000 feet will try almost anyone's lungs and legs). Those who come will be rewarded with large amounts of beauty. If you are such a visitor, the area is at its most hospitable now.



BILL ROSS

Chiaroscuro cavern *is one of several found on trail to White Chief Lake*

Metamorphic morsel *is searched for silver; mining once lured 3,000 people here*

Campfire talks *are one benefit of Mineral King's entry into Sequoia National Park*

First, of course, you have to get there. Most people come by way of State Highway 99, branching off at Visalia and taking State 198 30 miles to Three Rivers. From there it's a 2-hour drive east on 26-mile-long Mineral King Road.

Under the original resort proposal, the road would have been widened; now, except for some judicious paving, it will remain much as it was in the early part of the century, when Model Ts were forced to drive it in reverse because their forward gears weren't up to the climb. For today's passenger cars (RVs are not recommended), the road remains steep enough to test radiators going up and brakes going down and curvy enough to test back-seat stomachs in both directions. It compensates for these flaws by being precipitously pretty.

Rather not make the drive yourself? Catch a ride on one of the High Sierra Stage's 14-passenger vans. One leaves Visalia for Mineral King Sundays at 10 A.M., Fridays at 1:30 P.M.; it leaves Mineral King Sundays at 2 P.M., Fridays at 5:30. Through the Sierra Stage you can make connections with Inland Empire Airlines, which serves Visalia from Los Angeles and San Francisco, with Greyhound and Trailways, and with Amtrak in nearby Hanford. Round-trip fare is $19.25 (add $5 for Hanford). Write or call High Sierra Stage, The Rucksack, 1043 S. Mooney Blvd., Visalia, Calif. 93277; (209) 732-4404.

Along Mineral King Road's upper end you'll find the area's two developed campgrounds. The first, 23-site Atwell Mill, lies 4 miles west of Mineral King Valley, within easy hiking of two impressive stands of sequoia: the Atwell Mill Grove, directly north, and the East Fork Grove, across the East Fork of the Kahweah to the south. The second, 32-site Cold Springs, lies just beyond the western fringes of the valley.

Both see heavy use on summer weekends; to sidestep crowds, plan a weekday or post-Labor Day visit. (Weather usually remains amiable through September.) For campsite availability, call the Sierra District Office, Sequoia National Park, (209) 565-3341.

Another overnight alternative is the set of cabins ($22 to $32) at Silver City; write to Silver City Store and Cabins, Three Rivers, Calif. 93271, or call (209) Silver City Toll Station #2 (via Fresno

BILL ROSS

You round 700 curves *(by one estimate) before arriving at Mineral King; van service lets you leave steering to others*

operator). Next to the cabins is a small store and restaurant, open 6:30 A.M. to 7:30 P.M. daily through summer.

Easy introduction to the valley

Through mid-September, interpretive walks leave daily from Mineral King Ranger Station (check there for walk times and campfire programs). A guided introduction is helpful because things are not always what they seem. This time of year Mineral King Valley looks appealingly, everlastingly tame, a 3-mile-long subalpine meadow so green it appears to be waiting for Heidi to skip across it.

In fact, August's peace is purchased by January's mayhem. Lying below 8,000 feet, the valley should by rights be forested; that it's not is the result of the avalanches that lunge off the mountainsides most winters. You can see further evidence of these slides on the cleared rock chutes above the valley floor.

Snow has also removed most evidence of the valley's human settlement, at one time considerable. As its name proclaims, Mineral King was once thought to be a veritable discount house of precious metals, and in the mining boom in the late 1870s, 3,000 people and 600 buildings crowded the valley floor.

But boom turned bust the following decade, logging rose and fell with equal speed, and although the traces of these activities were enough to keep Mineral King outside Sequoia National Park when the park expanded in 1926, today all that remains are scattered cabins, the occasional shred of machinery, and some mine shafts. (Ranger-led trips sometimes explore their entrances and those of the marble caves found along some trails. Don't poke too far in on your own.)

Day and longer hikes to glacial lakes and beyond

Trails rise from the valley into the surrounding mountains. All are steep and the altitude makes them seem steeper, but the views and the trailside gentians and phlox make rest stops pleasant.

The most popular destinations for backpackers and ambitious day hikers are the lakes found above the valley, all of them formed in the lower reaches of glacial-carved cirques. They include Eagle Lake, a 4-mile walk from Mineral King Ranger Station on Eagle Lake Trail; Mosquito Lakes, a 5-mile hike (to the lowest of the five lakes) via the Eagle Lake and Mosquito Lakes trails; Franklin Lake (6 miles), reached by taking the Farewall Canyon Trail south to the Franklin Pass Trail, which climbs east to the lower of the two Franklin Lakes; White Chief Lake (6 miles), reached by taking the Eagle-Mosquito Lakes Trail, then cutting to the south on White Chief Trail, which disappears in talus before it reaches the lake; and Monarch Lake (6 miles), reached by taking the Sawtooth Pass Trail towards Sawtooth Pass, then turning south to Monarch Lake.

In addition, Mineral King has long been a popular jumping-off point for longer trips into the wilderness: over Timber Gap to more northerly portions of Sequoia National Park; over Sawtooth Pass and Franklin Pass across the Great Western Divide; and over Farewell Gap into the Golden Trout Wilderness.

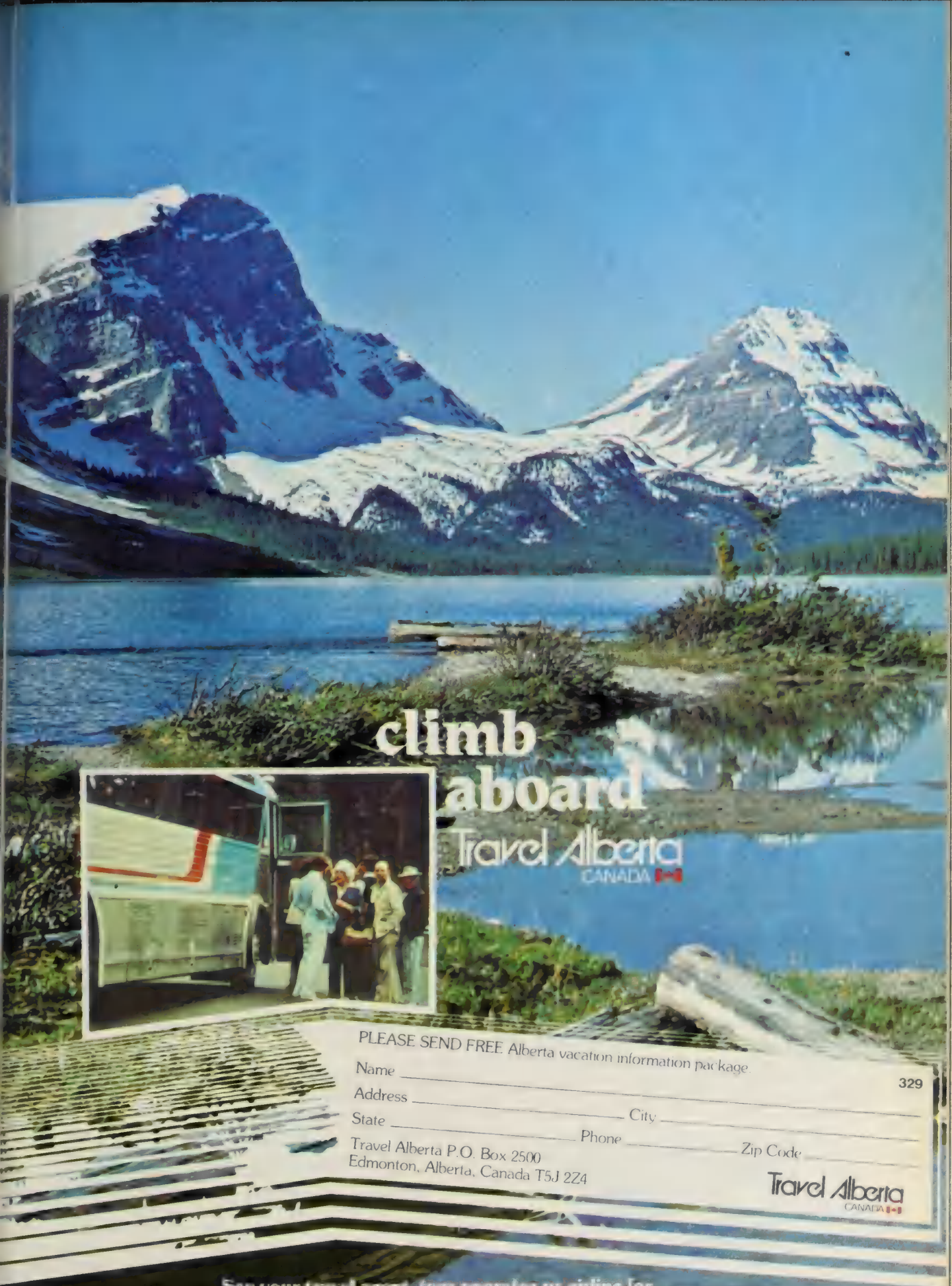
Essential to planning such trips is the USGS Mineral King topographic map; very helpful are *High Sierra Hiking Guide #8, Mineral King*, by Ron Felzer (Wilderness Press, Berkeley, 1981; $4.95) and *Self-Propelled in the Southern Sierra, Volume 2*, by J. C. Jenkins (Wilderness Press, 1979; $8.95).

Back-country permits, burros, horses

Such are the pressures on the Sierra these days that the Park Service has had to sharply restrict camping outside of developed campsites. Permits are required, and daily limits have been placed on the number of people allowed to begin hikes on each trail. Half the openings can be filled by reserving through Sierra District Office, Sequoia National Park, Three Rivers, Calif. 93271; (209) 565-3306. The other half are filled on a first-come basis at Mineral King Ranger Station.

Within Mineral King, open fires are prohibited above 9,000 feet; as this takes in many places people hike to, bring a stove and be prepared to backpack out all trash.

If you'd like some four-footed aid, try taking one of the burro- or horse-packing trips offered by the Mineral King Pack Station. Prices range from $20 to $55 per person per day; day rides are $28. Write to the pack station, Box 61, Three Rivers, Calif. 93271; or call (209) 561-4142 or (209) Mineral King Toll Station #4. □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See your travel agent, tour operator or airline for motor coach and fly-drive packages. Check the special advantages of spring and fall vacations. Or use the coupon for additional vacation information.

Chatting *beneath overflowing grocery tubs, Kyongju pedestrians are oblivious of bike-touring Westerner. Below, streetside vendor offers steamed sweet potatoes, cabbage kim chee, and rice bread on sticks*

Train and bike adventure out of Seoul, Korea . . . ancient Kyongju

Bulgugsa Temple's *stairway was designed as entry to spiritual world of Buddha*

Once buried beneath earthen tombs and forgotten behind crumbling temple walls, relics of two thousand years of Korean culture are being meticulously unearthed around the ancient city of Kyongju. Capital of the Silla Dynasty for a thousand years, this ancient city near the Sea of Japan is rapidly coming into its own again as Korea's newest resort complex.

Kyongju is an easy two-day side trip out of Seoul. Even though language can be a barrier to travelers in some parts of Korea, this is one trip that adventurous souls can do on their own.

Complete tours can be arranged through your Seoul hotel travel desk. A typical two-day, one-night excursion including hotel, meals, and round-trip bus transportation costs about $117 per person, double occupancy.

We preferred to take the Saemaul express train to Kyongju, join a local tour from our hotel to several outlying temples, and then explore the town with rented bicycles on an easy 5-mile loop. Independent travelers should have their Seoul hotel travel desk confirm Kyongju hotel accommodations, purchase round-trip train tickets, and reserve local tours.

The train journey alone is worth the trip. Traversing the peninsula, you pass through green fields of rice and valleys filled with orchards. Small villages of pastel-hued houses with colored tile roofs cling to steep hillsides above the fields, and farmers carrying loads of produce or leading fat water buffalo by a nose rope commute from village to plain.

The 9 A.M. train arrives in Kyongju by 1:30 P.M. Keep your ticket—a conductor will collect it at the station exit. Return express to Seoul is at 5:45 P.M. daily; round-trip fare is $54.80.

The small kiosk in front of the station has an English-speaking guide on hand when trains arrive. Stop here to get a free tourist map of Kyongju and ask about bicycle rentals.

Hotel facilities are centered in two separate areas. Closest to town is the new Bomun Lake resort area, with three deluxe hotels and a country club.

If you're staying only one night, a better base is the Kolon Hotel ($35 double) or Hotel Shilla ($32 double), a 15-minute taxi ride from the station. Both are near Bulgugsa Temple, one of Korea's national treasures.

Built in 751, the temple is the essence of Silla Dynasty architecture. The grounds were restored in 1973, and although the entire complex is barely a tenth of its original size, it still reflects the harmonious symmetry of the original. Opposite the main hall are two graceful freestanding stone pagodas, and behind them the Chaha-mun gate (old temple entry) offers a rooftop view of the rest of the temple.

A two-wheel tour

The city of Kyongju is not large, and most important historical sites are close enough to each other to make it ideal for exploring on bicycle. In fact, many side streets have more bicycles than cars.

Because we were the first Westerners to try renting bikes, the process took a great deal of head-scratching at the shop. Your hotel concierge can help by writing out in Korean a request to rent a bicycle and lock for a half-day of sightseeing, asking the shopkeeper to write out the cost and the amount of deposit.

Bike shops we checked were a block

THE VANAGON. IT TAKES LESS GETTING USED TO THAN IT USED TO.

For some people, buying a Volkswagen Bus of yesteryear used to take more than money.

It took courage.

Which was understandable, considering how funny our old Bus looked.

Now, mercifully, all that's changed. There before you stands the most modern, aerodynamic looking van known to computers.

Gone are the funny little windows. Replaced by large picture windows.

Gone are the funny little doors. Replaced by large sliding doors.

Gone are the funny bus seats. Replaced by comfy sedan seats.

Gone is the little engine that could, after a fashion, leg it up a hill. Replaced by an electronically fuel-injected engine. With much more power.

Today, thousands of improvements have gone into our new Vanagon. Notably: a new suspension system. New steering system. New braking system. New heating/ventilation system.

So impressive is the new Vanagon, *Car and Driver* wrote:

"What we have here is the Porsche 911 of vans. The Vanagon goes down the road with a car-like assurance that's never existed in vehicles of this type before."

Now that will be a pleasure to get used to.

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You wanted more than the best Prime Rib.
We listened. We added a wide assortment of delicious new entrees. From shrimp stuffed with crab meat to Pacific Northwest Salmon and scrumptious Teriyaki Chicken. And tangy new appetizers such as Nachos and deep-fried Zucchini, complete with a whole array of new specialty cocktails and wine selections.

You wanted more ways to order the best Prime Rib.
We listened. We added more choices in the size of our great Prime Rib, so now you can enjoy portions from as little as 8 ounces for lighter appetites, to as much as 28 ounces for huge ones.

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Thank you, America, for creating your favorite fine dining menu. Now it's time to taste what you've created.

Reservations welcome. Non-smoking sections available. *Prices may vary in some locations.

Thank you America, for creating your favorite Menu!

VICTORIA STATION

The best Prime Rib.
And now a whole lot more.

down Hwa-Rang Street (it runs perpendicular to the train station). We paid $ an hour and $20 deposit per bike.

Using the free tourist map, the following directions, and a little intuition, you should be able to navigate to the main attractions without too much problem. The guide at the train station kiosk could help if language problems arise.

Pedal back to the station and turn right on the main road, which heads south. It's a mile to an intersection from which you can see the distinctive pagoda-roofed Kyongju Museum. Open 9 to 5 daily, this museum houses relics excavated from tombs of Silla royalty and ruins of ancient temples.

Leaving the museum, turn left and follow the road almost a mile to its end near the 222-year-old Sungdok-jong shrine (open to visitors). Turn right over a stream, then take the next right and wind through Choe Village, Kyongju's oldest neighborhood. At the end of this street, turn left, then left again to pass the distinctive stone tower called Chomsong-dae, built as an observatory in the early seventh century.

Continue up this street a long block to the entrance of Tumli Park. Inside the park, which is open 9 to 5 daily, are the mounded earth tombs of the earliest rulers of the Silla Dynasty. Many artifacts from the tombs are now in the Kyongju Museum, but you can tour the Heavenly Horse Tomb to see an exhibit on its excavation.

Another 1¼ miles along this street will get you back to Hwa-Rang Street a block west of the bike shops.

This adventure is not for the timid, since street signs in English are rare and few people speak the language if you do get into a bind. You need to be watchful of traffic and lock your bike whenever you leave it. Still, if you have the soul of an explorer, this can be the highlight of a Korean visit.

Background reading

Two comprehensive books are the *Korea Guide* (1980; $10) and the *Kyongju Guide* (1979; $12), both by Edward B. Adams. The *Korea Guide* discusses principal sites and temples, while the *Kyongju Guide* contains more detailed descriptions accompanied by maps. For air-mail delivery, add 30 percent of the book total to your check and mail to Edward B. Adams, Seoul International Tourist Publishing Co., 458-4 Shinsa-dong, Kangnam-ku, Seoul, Korea. Allow two to four weeks for delivery.

Visas aren't required for visits of up to five days. For more information on visiting Korea, write to the Korea National Tourism Corporation, 510 W. Sixth St., Suite 323, Los Angeles 90014; or call (213) 623-1226. □

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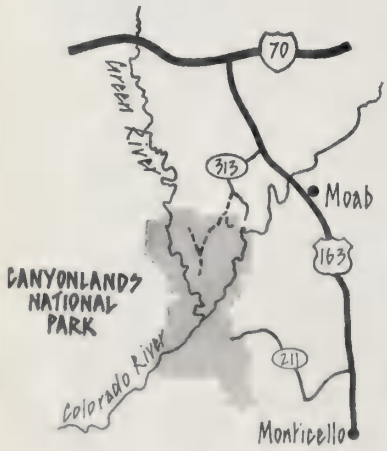
MARGARET W. PETERSON

A rock window *along the White Rim Trail of Canyonlands National Park frames a spectacular view over the Green River Basin*



Park is accessible *from state highways off U.S. 163*

Untamed Canyonlands

You can go in limited ways in your car. Or go anywhere by tour service, horse, 4-wheel

Etched by wind and two mighty rivers, the sandstone landscape of Canyonlands National Park in Utah's southeast corner remains almost unchanged by decades of travelers.

Until recently, jeeps and horses provided the only access to the hidden wonders of the often harsh canyonlands. It's still not easy to get around, but on newly improved roads, you can drive out to some spectacular overlooks.

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*Source: Hawaii Visitors Bureau, 1979 Visitor Reaction Survey, July, 1980

Combined furies *of Green and Colorado rivers funnel into the park's Cataract Canyon, where 20 miles of rapids end in Satan's Gu*

back country, there are more guide services than ever.

It remains an untamed land, and you should travel with caution—bring plenty of water (summer temperatures hit the 100's). If your plans call for a fall visit, you'll find cooler days (in the 70's), crisp nights, and, in October, some bright color, especially on roads approaching the park. Winter brings cool days, cold nights, a little snow. Spring is lovely, with mild dry days and a sprinkling of flowers in the meadows. At any season, ask about road conditions at the Moab park headquarters before venturing on back roads.

At its north end, the 336,680-acre park is accessible by Island in the Sky Road, passable in dry weather by most cars. From Moab, take U.S. Highway 163 north 6 miles; turn west on Island in the Sky Road (State 313), paved for the first 14 miles, then gravel and dirt for 22 miles. It climbs to a 6,000-foot-high overlook, offering spectacular views over the Green River basin.

The south or Needles district is easier to reach: from Moab, take U.S. 163 south 35 miles, then drive west 40 miles on paved State 211 to Squaw Flat Camp-

Mud bath, anyone? *Silt builds up on bars in Colorado, providing cool-off for rafters*

MARGARET W. PETERSON

Four-wheel-drive *tour vehicle handles rugged roads like this one with authority*

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*EPA estimates for comparison, with standard 5-speed. Actual mileage may differ depending on speed, trip length and weather. Highway mileage will probably be less. California estimates: 20 28.

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Winged *Angel Arch, a landmark of the N*

ground and Elephant Hill. Short walk trails lead out from here.

Leaving the driving to someone else

Since much of the park is inaccessible passenger car, four-wheel-drive to have much to offer. Several operators based in Moab or nearby. Each operat includes a picnic lunch with the tour b advises you to bring water, sun hat, a sunglasses. Tours continue into ea October. Reservations are required.

Canyonland Tours, Box 460, Flagstaff, Ariz. 86002; (602) 774-7343. Day trips by four-wheel-drive into Island in the Sky ($50) and Angel Arch ($70), plus day raft trip on the Green River ($40). Longer jeep and raft trips are also offered, including seven-day photographic workshops for $59

Lin Ottinger Tours, 137 N. Main St., Moa 84532; (801) 259-7312. Day trips by van to Walking Rocks formation ($25), Gemin Bridges ($25), Monument Basin ($25), and others. Free slide show nightly at 8.

Outlaw Trails, Inc., Box 336, Green River 84525; (801) 564-3477; outside Utah, (800 453-1402. Day-long jeep trips from Green River to Temple Mountain ($45) and one-day raft trips along the Green River ($25). Longer raft and overland trips are also available. A horseback tour September 20 to 26 will cost $775.

Mitch Williams Tag-A-Long Tours, 452 N. Main St., Moab 84532; (801) 259-7218. Day trips by four-wheel-drive to Angel Arch ($65) and Island in the Sky ($39), raft trip on the Colorado ($25). Also longer trips on Green and Colorado rivers.

Floating through the park

You may wish to see Canyonlands Major John Wesley Powell did—fro the water. Several outfits make extende rafting trips along the river; a list is avai able from Canyonlands National Park 446 S. Main St., Moab 84532.

For a quick sample, four companie based in Moab offer day trips on th Colorado. Each supplies transportatio to the put-in point, lunch, life jackets and waterproof bags; you should brin sun hat, sunglasses, and lotion. They a

MARGARET W. PETERSON

t, is a long day's drive over rough roads

n a 20-mile section (beginning at the sher Towers formation) in 17-foot in-table rafts; it's fairly quiet water, with out eight sections of rapids to keep ngs lively. Trips begin the end of pril, continue through to mid-Septem-r or early October. Reservations are visable.

orth American River Expeditions, x 1107, Moab 84532; (801) 259-5865. ily trips leave at 9, return at 4. Cost: $25, 7 for youths. Also offers longer trips.

dewinder River Expeditions, Box 368, oab 84532; (801) 259-7252. Daily trips gin at 8:30, return to Moab about 4. Cost $23 adults, $19 youths under 17, $15 ildren under 12. Six-day trips through ataract Canyon cost $445.

er's River Expeditions, Box 67, Moab 532; (801) 259-5101. Daily trips leave at return at 3. Cost is $21 adults, $14 under . Five-day trips to Cataract Canyon cost 90, including scenic flight.

'estern River Expeditions, 7258 Racquet lub Dr., Salt Lake City 84121; (801) 2-6669 or 259-7019. Daily trips leave at), return at 4. Cost is $25. Four-day trips rough Cataract Canyon cost $375.

o learn more about the park, you can take ducational hiking courses through the *olorado Outward Bound School,* 945 ennsylvania St., Denver 80203; (303) 37-0880. Standard 23-day hiking and afting course will be offered September 8 30; October 6 to 28, November 3 to 25, or $830.

Getting to the gateway—Moab

'here's no air service to Moab now, but ou can reach it by Continental Trail-vays bus. From Salt Lake City or Den-'er, the Denver and Rio Grande Rail-oad stops at Green River (50 miles orthwest of Moab) three times a week.

Vith its recent uranium-related boom, Moab has seen much growth, now has ome 17 motels and a dozen restaurants. The park itself has two campgrounds (no 'eservations). Fee for the busier Squaw Flat Campground in the Needles district s $3 per night; the Northern Willow Flat Campground is free. □

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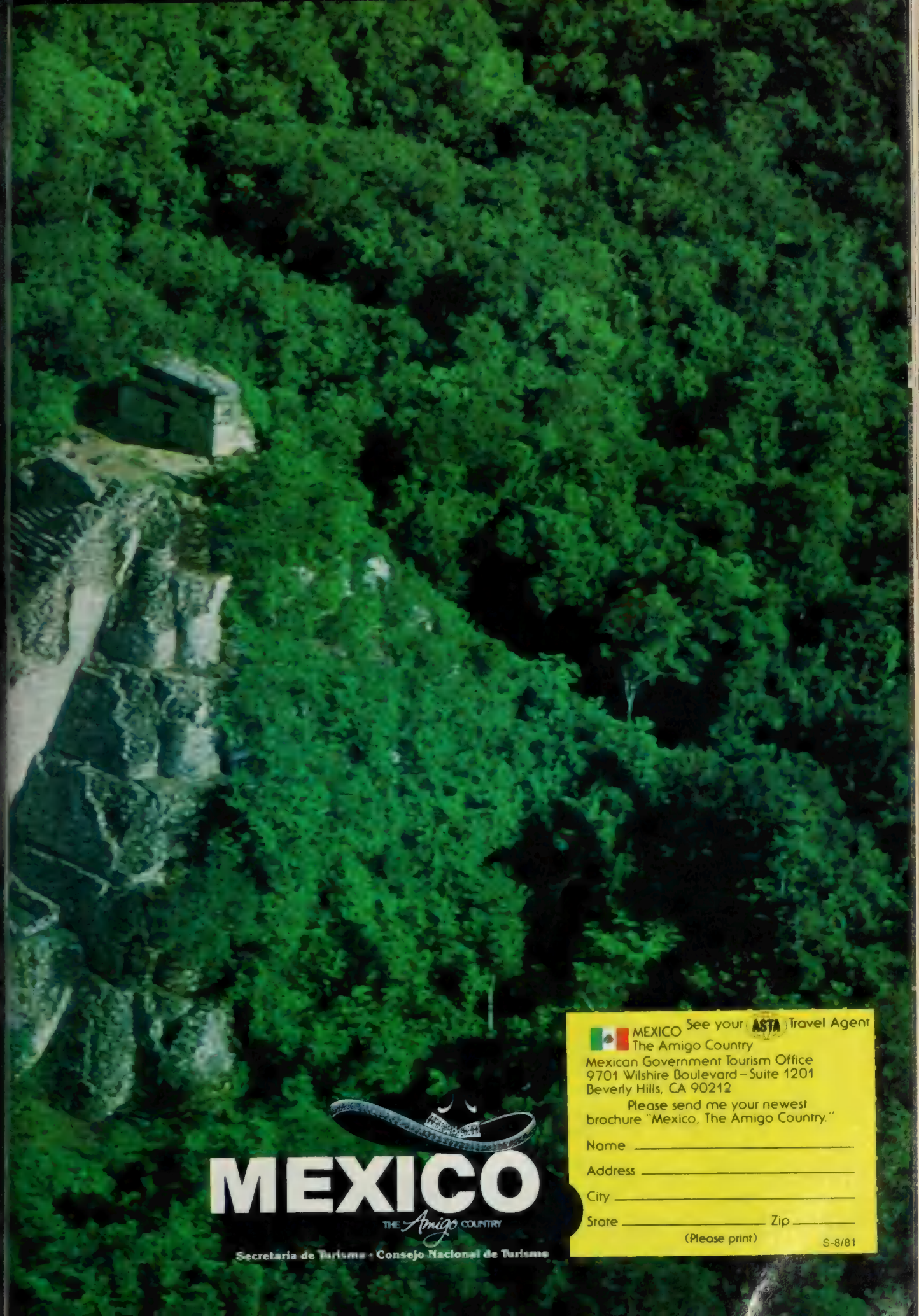

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S-8/81

GREGG MARCUSO

Hemmed in *by an orderly tangle of bobbins, Phoebe McAfee (center, at left) explains Aubusson technique. Instructor Ernestine Bianchi (at right, below) adjusts treadles on student's small upright loom*

French tapestry weaving in San Francisco . . . you can look in

Hundreds of years ago, European noblemen brightened their dark palaces with huge tapestries, often hung several inches out from the walls so that currents of air could make "moving pictures" of the woolen images. Among the most valued of these were weavings made in France by the master craftsmen of Aubusson, who used a special low-warp (horizontal) loom built to maintain tension firm and steady enough to produce intricate pictorial detail, sophisticated nuances of color, and a fabric of great durability. In our own century, the work of internationally acclaimed tapestry designer Jean Lurçat has again revitalized the Aubusson tradition.

If you'd like to see or learn Aubusson weaving, there's only one place in America where you can do it: the San Francisco Tapestry Workshop, on 23rd Street at Chattanooga Street (four blocks south of Mission Dolores Park). Each Wednesday afternoon from 3 to 5 (and other times by appointment), visitors are welcome to enter the tranquil quiet of this color-strewn Noe Valley atelier.

You can watch student, apprentice, and master weavers at work—perhaps two or three to a loom, sharing in the execution of a single design—as they complete their own or commissioned projects. You'll see the handsome, steel-reinforced wooden looms built by Jean-Pierre Larochette, who is a member of an old Aubusson weaving family.

Some finished work hangs on the walls. And no doubt you'll find some unfinished pieces in place on the looms, basted to cartoons (design plans) that guide the weavers, who work facing the reverse side of their tapestries.

If you'd like to learn French tapestry weaving and design, you may want to investigate the workshop's study program. The basic class requires a two- to three-month commitment, but an intensive one-month session and periodic weekend workshops are also available. For more information, write to the San Francisco Tapestry Workshop, 3747 23rd St., San Francisco 94114; or call (415) 826-8479.

Without realizing it, you may already have become acquainted with some work from this atelier: member weavers were commissioned to produce pieces by Judy Chicago (she designed cartoons for *The Dinner Party* here), Mark Adams (his *California Poppies* now belongs to the California Palace of the Legion of Honor), and Yael Lurie (five tapestries she designed for the altarpiece at San Francisco's Temple Emanu-El were woven here, and a big project for the San Francisco Airport is currently underway).

When you visit, workshop personnel can advise you where to see other fine examples of fiber art in the Bay Area. □

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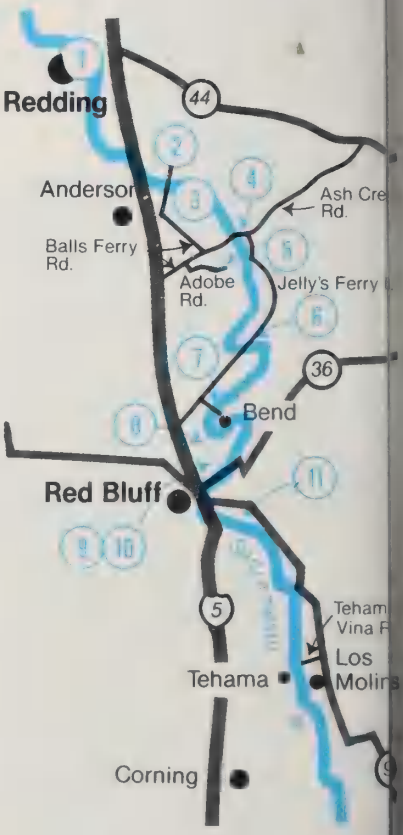
DAVID STUBBS
Big, broad river *south of Redding challenges you with riffles, seduces you with scenery*

Spirited and riffly, lazy and wide ...the Sacramento is a canoer's river. Bring your own or rent a canoe

First they learn *the forward sweep; then ranger-led canoeists will paddle to Woodson Bridge*

Put-in places, Redding to Red Bluff

1. *Rodeo Grounds, Redding (0 miles)*
2. *North Street Bridge (13.8 miles)*
3. *Anderson River Park (15 miles)*
4. *Balls Ferry Fishing Access (21.9 miles)*
5. *Reading Island Fishing Access (camping; 24 miles)*
6. *Jelly's Ferry River Access (31.2 miles)*
7. *Bend Bridge Fishing Access (40.3 miles)*
8. *William B. Ide Adobe (51 miles)*
9. *Dog Island Park (53 miles)*
10. *Red Bluff River Park (53.8 miles)*
11. *Red Bluff Diversion Dam (camping; 55.2 miles)*



In the pages of a 1902 *Sunset,* one Mr. Cloudsley Rutter asked readers to envision a voyage down a winding river, "the water pure, cool and clear, the current so swift that you travel 3 or 4 miles an hour without other exertion than merely guiding the boat.

"Cover the banks with trees, and put a few riffles or small rapids in the current to give a little excitement, and insert an occasional stretch of quiet water by way of variety, and locate camps among the trees with great piles of driftwood for bonfires at night, fill the river with fish and cover its surface with game birds, and extend your excursion to a hundred miles and loiter along for a couple of weeks—the charm is beyond description. Such is a California outing on the Sacramento River."

We can't improve on that. A lot has changed on the Sacramento since 1902. A river once given to high-water tantrums has been pretty well tranquilized by dams; some banks once densely matted with willows have become straight and neat and a little boring under new coats of riprap; you can't make camp with the turn of the century's co- plete disregard of property lines. But many miles the Sacramento is as bro and pleasing as ever. And some of t changes that 80 years have worked- canoe rentals, improved access to t water—make it easier for this summe Cloudsley Rutters to paddle it.

Canoes will find the friendliest waters the 150-odd miles between Redding a Colusa. Zealous paddlers can make t entire trip in four or five days. Most us will opt for less lengthy voyages.

The easiest alternative is to rent a can

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t e of the river's two liveries, paddle o stream, and be picked up by the y at a predetermined point at day's n But other excellent day trips of 10 o miles can be made if you already a a canoe and are willing to put up i leaving one car at the start of the r nd another at the end.

O maps show where legal, public, de- e ed access to the river exists. At four p s along the Sacramento, you'll find p ic campsites should you choose to ex d your trip past one day. You'll a find a fair number of private camp- g nds and resorts that will put you up f he night.

B re you go . . . classes and cautions

R rs can never be taken safely for g ted. Even slow-moving reaches of t Sacramento seem fast enough when t r water is pushing you against fore- h d-high brush. The best guard against a mishaps is to take a class in river c oeing offered by the American Na- t al Red Cross, American Canoeing A ociation, YMCA, Sierra Club, local p ks and recreation offices—and, on t Sacramento, by canoe liveries and t rangers at Woodson Bridge State R creation Area (see page 48). A good p nted introduction remains the Red C ss book *Canoeing* (Doubleday, Gar- n City, N.Y., 1977; $3.95).

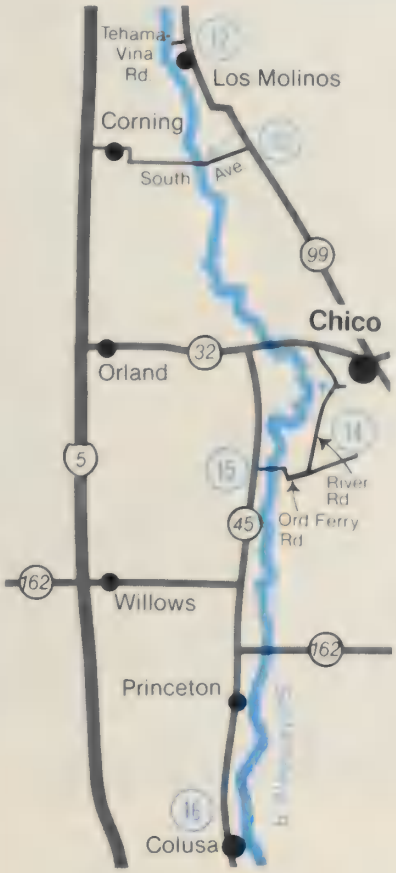
her cautions? Life jackets are required all California rivers; wear them, nly tied. Dress in clothes that allow sy movement and that dry quickly. A nscreen, insect repellent, wide- immed hat, and foam kneepads are acial comforts. And, like Coleridge's cient mariner, Sacramento canoeists n find themselves surrounded by water dubious potability; keep a filled can- en or two tied to the canoe seat.

edding to Red Bluff: irited riffles, an 1850s adobe

ou can rent canoes at Yu-can Canoe, 583 Park Marina Dr., Redding, Calif. 6001; (916) 243-9272. One-day rental osts $16; shuttle service is $8 per day er canoe. Guided tours cost $15 per ay per person, with a three-boat mini- ium. Group rates and good river maps re available.

his stretch of the Sacramento is chilly nd spirited, with a number of snags and ridges and colloquially named riffles Conveyor Belt, Upper Plywood) to keep addlers awake. At Redding and Ander- on and Red Bluff, it is very much a own river, and you bob along within ight of the patios and plate-glassed liv- ng rooms of blufftop homes. But in be- ween towns the riverscape, with its ributary creeks and its oaks and its dis- ant view of mounts Shasta and Lassen, as that flat, wide, unused beauty you ee in George Caleb Bingham's paintings f the Missouri.

DAVID STUBBS
Hair- and skin-poking brush *is one good reason to steer well clear of shore*



Put-in places, Los Molinos to Colusa

12. *Mill Creek Fishing Access (68.5 miles)*
13. *Woodson Bridge State Recreation Area (camping)—Tehama County River Park (79.7 miles)*
14. *Bidwell River Park (103.5 miles)*
15. *Ord Ferry Park (113.8 miles)*
16. *Colusa - Sacramento River Recreation Area (camping; 153.6 miles)*

The most prominent piece of waterside geography lies in the 11 miles between Bend Bridge and Red Bluff: Iron Canyon. The specter of its rapids has been used to frighten first-time paddlers on the Sacramento for nearly as long as the river has been paddled. In 1902, *Sunset's* Mr. Rutter was promised a 60-mile-an-hour current slicing over saber-sharp rocks; this year a contemporary *Sunset* reporter was promised much the same thing. In fact the rapids are a series of eddies and riffles, not Niagara but demanding enough that you should be certain of your canoeing skill before attempting them.

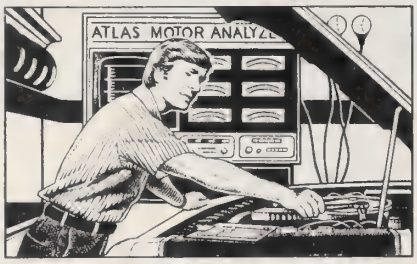
Beyond Iron Canyon, the river slows on its way to Red Bluff, and, especially in a head wind, even gung-ho canoeists may find themselves secretly praying for an outboard motor. Just in time, on the right bank, comes a rest stop of unusual interest: William B. Ide Adobe State Historical Monument.

Ide was one of those terrifyingly busy men whom the 19th century seemed to generate in enormous quantities. He came to California by wagon train with his wife and nine children, built a cabin, bought a ranch, mined for gold, and along the way became the leader of the Bear Flag Revolt, which in 1846 declared California's independence from Mexico. The adobe that wears his name provides a glimpse into the daily life of adolescent California. The free park is open 8 to sunset daily, the adobe museum (also free) 11 to 4 weekdays.

Below the adobe, the Sacramento becomes a virtual lake as it backs up behind the Red Bluff diversion dam,

Chevron seismologists are listening for oil 20,000 feet underground.

But a good tune-up is still music to our ears.



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where you will find a fish ladder and viewing area (at its quietest now but worth a look) and a 20-space campground, reached by a rather long passage through the parking lot.

Los Molinos to Colusa: placid water, ranger-led trips

South of Red Bluff, the river becomes more a part of the 20th century, flowing for long stretches past acreage where native brush has given way to the orderly business-like verdure of peach and apricot and olive groves.

You can rent canoes at Driftwood Fishing Resort, 24630 Tehama-Vina Rd., Los Molinos 96055; (916) 384-2851. Rentals are $15 per day; shuttle fee varies. Sample cost: shuttle service from Ord Ferry Park for up to 16 canoes, $70.

The resort is also the starting point for Saturday morning canoe trips led by rangers from Woodson Bridge State Recreation Area. After a run-through of basic canoe strokes you're led on a day-long cruise downstream, learning a good bit about the river's plant and animal life along the way. And because rivers in the arid West breed debate the way they mobile bodies of water breed mosquitoes, you also learn a good bit about controversial river issues. How do dams affect salmon spawning? How effective are levees and riprap at controlling erosion? Must the increasing number of acres put to agricultural use here mean the disappearance of native riparian vegetation?

To join one of the trips, which run Saturdays through summer and early fall, make reservations with Woodson Bridge State Recreation Area; call (916) 8[illegible]-2112. If you don't have your own canoe, reserve one through Driftwood Resort; cost is $21, including shuttle.

The canoe trips' destination, Woodson Bridge State Recreation Area, has 1[illegible] oak-cooled campsites that are about a half-mile portage from the river. Adjacent Tehama County River Park has no overnight facilities, but it does have picnic tables, a store, and a cafe open Monday through Saturday from 8 to 5.

Access to the river becomes somewhat harder to find below Woodson Bridge and time on the river necessarily lengthens. One good day trip is the run from still undeveloped Bidwell River Park near Chico to pretty little Ord Ferry Park, 10 miles to the south. You can also paddle the somnolent waters near the Colusa Sacramento River State Recreation Area, if you don't mind competition from powerboats. The recreation area's 25 campsites can get crowded on weekends; you can make reservations by calling a Ticketron outlet.

For additional information and maps of the Sacramento, write to the Department of Boating and Waterways, 1629 S St., Sacramento 95814.

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LLY WILD

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LN7
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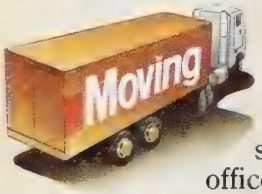

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MICHAEL THOMPSON

Charter an air taxi *from Portland for a close-up view of Mount St. Helens. Steam hisses from within the fumaroles around the blown-out crater*

Looking down on Mount St. Helens

"**irting the edge** of the crater, I was l king at a whole mountain which was r hing but a shell, and an unstable one a hat. At 9,000 feet, I was looking into t hollow core still hissing and spitting l a mountain lion."

at's how *Sunset* reader Ruth Daniel- described a chartered air taxi flight e took over Mount St. Helens. If you're visiting Portland and would like to view the awe-inspiring sights, there are about 15 small airplane charter companies close to the volcano in the Portland area. Check the telephone directory yellow pages under Aircraft Charter.

Prices, based on an hourly rate, depend on how many friends fly with you. For three to five passengers (the usual load), the cost ranges from about $27 to $39 per person; the length of the flight varies. The planes fly as close as 2 miles from the crater at an altitude of about 6,000 to 9,000 feet. Helicopters that hold up to four are available for a closer look (they sometimes hover within 2 feet of the ground) at about $100 per person.

Be certain to confirm that the operator you choose has a Federal Aviation Administration air taxi certificate. To retain certification, companies must pass frequent FAA inspections.

Because of the fickle weather, many firms will arrange flights with just a few hours' notice, but it's best to book a few days in advance.

What's it like to fly over this fascinating volcano? Ms. Danielsen's description continued: "Several thousand feet below the crest was a rough black floor. And near the center was a round, black, cracked mound. White fumaroles surrounded this mound and steam puffed from various cracks."

At the end of her 80-minute flight, she concluded: "I had seen at least 130 years' worth of history, the time elapsed since the previous eruption. And my concept of mountains had undergone a thousand years of radical change." □

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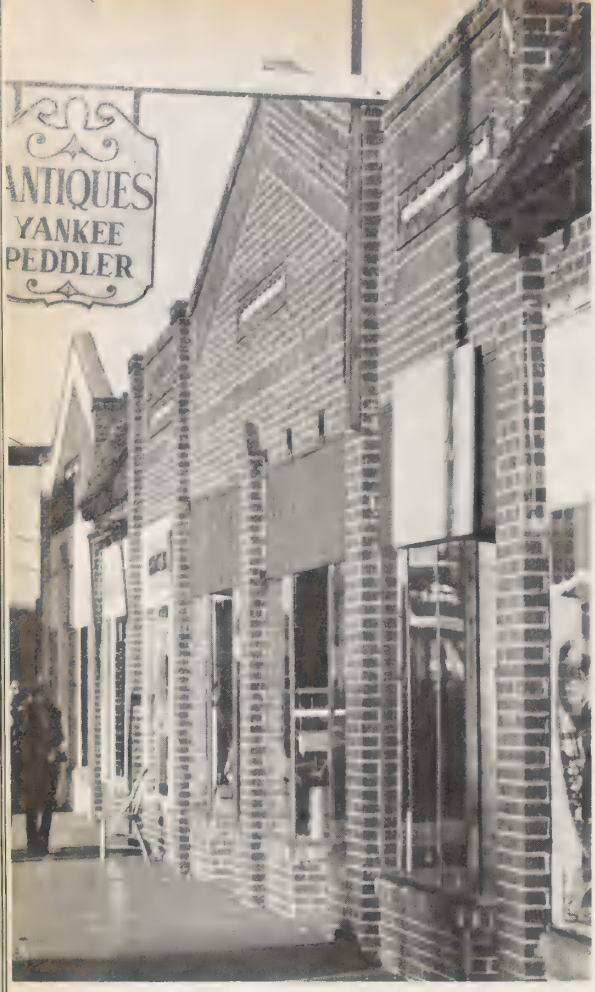

Some brick-front shops *along Denver's S. Broadway are antiques themselves, dating back to the 1880s*

SUSAN BIDDLE

Before food processors, *cooks speeded chores with devices like this eight-cherry pitter—an item in Nita's antique shop*

Treasures of the recent and distant past on Denver's antique row

Asking price *for prized 1929 electric toy engine is $2,000 at Turn of the Century*

A kerosene lantern, a toy train, old glass and barbed wire, an odd kitchen tool—such simple everyday items of past eras bring a glint of delight to the eyes of many collectors in the West. In Denver, a whole row of antique shops abounds in such memorabilia.

The shops have sprung up along S. Broadway near downtown Denver. Most of them specialize in early American and Colorado antiques (chiefly furniture), but several shops deal in Victorian, Oriental, and English country pieces.

Antique row is concentrated in the 1400 block of S. Broadway between E. Arkansas and E. Florida avenues (more shops dot the street farther south). Along this block are 20 stores to choose from. From I-25, take the S. Broadway exit and head south four blocks.

In summer, most of the shops are open 10 to 5 Monday through Saturday; a few are open Sunday noon to 4. Shops can ship large items to your home.

Here are the shops, starting down the west side, then up the east side.

Nita's (1407): primitives, tools, kitchen items.
Turn of the Century (1421): toys, dolls, furniture.
Corky Schaffer's (1447): collectibles.
Big and Little (1449): oak and walnut furniture.
Alice's Attic (1451): oak, china.
Howerton's (1457): furniture, collectibles.
Martin Quick/Eron Johnson (1464): English and American furniture.
Yankee Peddler (1462): New England furniture, toys.
Bonnie Boyd (1460): New England country furniture.
Gold Miner (1454): primitives.
Blue Lion (1452): Victorian furniture.
Great American Investment Company (1448): oak furniture.
Silver Dollar (1446): oak furniture.
Broadway Antique (1438): clothes, collectibles.
Antique Cupboard (1432): oak and walnut furniture.
American Antiques (1426): early Americana, country objects.
Portico (1420): furniture.
Continental Mercantile (1416): furniture.
All Hours (1414): clocks.
Remember When (1404): silver, jewelry. □

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MAN A. PLATE

odworker checks *for nicks in paint-stripped affe from San Francisco's 1900 ntzel carousel during its restoration year*

BILL ROSS

Details can be rediscovered *and enhanced during repainting, such as Parker signature (above) in Portland carousel and ruffled feathers on Dentzel ostrich*

DAVID STUBBS

ere's the magic in a carousel? As you irl around on a painted pony with wers in its mane, you might say it's in blur of colors and lights and dizzying tion. Others might say it's in the child-od memory of a summer's day spent veloped in the surging music of a rry-go-round organ.

t when the music slows, you may find re magic in the artistry of the fanci-, handmade carvings.

The West is rich in this nostalgic form of woodworkers' art, with 25 fine carousels from around the turn of the century —the golden age of the hand-carved merry-go-round—still operating in seven states (the full list is on page 16). But carousel components are surprisingly fragile, and recently efforts have been redoubled to protect them.

Westerners are in the forefront of the preservation campaign and have already

The carousel comeback

Classic pieces of woodworkers' art-in-motion, grand merry-go-rounds all over the West are being rescued and restored. This summer is the time to admire and ride...25 carousels are still spinning

Dentzel. *Noted especially for his menageries, Dentzel made 20 species of carousel animals. His animals have lifelike expressions, heavily muscled legs, sometimes a clown figure on the side; horses have elegant trappings. Carousels in Anaheim, Buena Park, San Francisco, Carlsbad*

NORMAN A. PLATE

Looff. *Flamboyant, betasseled horses mark the style, with real horsehair tails often a feature. Quaint touches such as tiny saddle packs, a single jewel in the harness, or bejeweled saddle blankets also are trademarks. Carousels in San Diego, Santa Cruz, Spokane*

SUSAN BIDDLE

Philadelphia Toboggan Company. *PTC favored patriotic grandeur, especially in carved chariots which often feature Miss Liberty with flag. Dignified horses holâ heads high, with flowing manes and graceful carved tails. Check for company emblem on saddle. Carousels in Denver and Burlington, Colorado; Santa Clara, Santa Monica, Valencia*

Each artist-carver had a style: patriotic, lifelike, folksy, flamboyant, wild

rescued some splendid antique carous
You can see these, ride them, and—v
a little study enjoy this special Ameri
folk heritage with new awareness. Y
might even decide to join a preservat
club and help save some more.

From war game to amusement

The early carousel resembled organi
mayhem more than amusement. Ca
a *garosello* or "little war," it consiste
a tournament in which knights r
about in a circular course, trying
spear a target ring (and, occasiona
each other). By 1680, fairs featu
wooden horses suspended by chains fr
a stout central umbrella—and with
ring to grab rather than lance. T
French added fancy carvings, the E
lish added steam, and the modern c
ousel was born.

In America, the merry-go-round reach

REGG MANCUSO

Herschell-Spillman. *Folksy-looking animals with friendly expressions are the sign of this maker, who also carved storks, deer, and bears. Carving was kept fairly simple—no jewels or fancy harnesses. Carousels in Berkeley, Monterey, San Diego, Salt Lake City. Herschell carousel in Phoenix; Spillman carousels in Los Angeles, Portland, Roswell*

BILL ROSS

Parker. *Perhaps the wildest of all, and easy to identify. Horses' manes flow wildly upward, legs plunge at full extension, necks stretch and strain, and nostrils flare. Check the trappings for details such as crossed flags, tiny six-shooters, lariats. Look for the Parker name inscribed on a horse's shoe. Carousels in Portland, Denver*

full flower. In the 1870s, skilled carvers joined machinists to create bigger, more opulent machines. And the animals came alive: horses pranced and snorted, tigers snarled, big cats caught fish.

In the early 20th century, a few premier makers emerged, still famous today. Each developed a distinctive style, quickly recognized by the careful observer (see our captions).

Learning the language of the carousel

If you look at carousel parts separately, a machine begins to tell you about itself. Animals were carved from hardwood, basswood or poplar, in laminated pieces (up to 70 for a single horse) joined with rabbit-hide glue. The most elaborate carving is always on the side facing the outside, called the "romance" side. Figures on the outside rings are larger and more detailed than ones on the inner rings.

The outside ring is often made up of chariots (for small children or ladies in skirts) and massive lions, tigers, and giraffes called "standers" (they don't move up and down). These are often the pride of the carousel, with intricate and whimsical saddle trappings and appealing facial expressions.

Usually, inside rows are "jumpers" turned by an overhand crank. Look upward for another clue to the carousel's theme or origin: the crestings (which mask the workings) are usually beveled mirrors and hand-painted murals with scenes from history or legend.

Some details give clues to the carousel's maker. The chariots of the Philadelphia Toboggan Company are often patterned on a patriotic theme, while those of Herschell-Spillman use nursery themes. Dentzel's crestings have sparkling mirrors and jewels.

Saving carousels of the West

The 25 antique carousels on our list on page 16 include representatives from all the major makers discussed here. But others have not been saved. Says Barbara Williams, editor of *Merry-Go-Roundup Magazine*, "It's sad to see machines broken up and the animals sold. It's like breaking up a family."

Happily, the drive to rescue neglected carvings and works is picking up momentum. "Some of the most fabulous machines in the world are here, and we're giving more attention to preservation than ever," says Sondra Evans, editor of *Carrousel Art*.

The job requires artistry with paintbrush and chisel, and research skills in the library. "I see my work as kind of a cross between plastic surgeon and archeologist," says restorer Ruby Newman.

How to get involved

You can join the preservationists and learn more about the history and artistry of the carousel. Write to the National Carousel Association, c/o Mrs. Robert Hall, Jr., Box 307, Frankfort, Ind. 46041 (dues of $18 per year include magazine and newsletter) or the American Carousel Society, c/o Roslyn Taylor, 55 Sutter St., Suite 830, San Francisco 94104 (dues are $15 per year and include newsletter).

You can subscribe to *Carrousel Art Magazine* ($14 per year), Box 992, Garden Grove, Calif. 92642; or *Merry-Go-Roundup Magazine* ($18), 10872 Kingsland St., Los Angeles 90043. And there's a 32-page book on carousel history and styles: *The American Carousel*, by Nina Fraley (Tobin Fraley, 3246 Ettie St., #12, Oakland 94608, 1979; $5.50).

In Portland, you can join a group of carousel restorers: call Duane Perron at (503) 238-4315. In Oakland, a show of some 75 carousel animals plus paintings and restoration exhibits runs September 18 to December 31 at Kaiser Center's Ordway Sculpture Gallery; hours are 8 to 6 Monday through Saturday. September 24 to 28, you can attend the national convention of the American Carousel Society in Santa Cruz, California. Write to them at the address above. □

Corn unadorned *toasts lightly on the barbecue; try it Mexican-style with a squeeze of fresh lime juice every few bites*

Aromatic foods toasting on street braziers in Mexico inspired this informal garden meal centered around the barbecue. Corn goes on the barbecue first: the early heat delicately parches the sweet kernels; tart lime juice and salt are the refreshing finishing touch.

As the barbecue's heat decreases, you or your guests fill, fold, and grill flour tortillas to make crisp burritos that you eat like big toasted sandwiches. We used the 12-inch-diameter tortillas (but directions follow for using 8- to 10-inch tortillas as well).

A green salad and beverage such as sangría (try half dry red wine with half orange juice over ice) or beer can complete the main part of the meal. Follow with a basket of fresh summer fruits —perhaps mangoes, peaches, and chunks of watermelon to pick up and eat.

1 • *Cheese, then other fillings go on warming tortilla*

2 • *Fold in narrow edges, the fold to enclose filling*

Barbecued Burritos

For each burrito, you will need 1 large (12-inch-diameter) flour tortilla, about ½ cup shredded Cheddar or jack cheese, ½ to 1 canned green chili, 1 or 2 large thin slices corned beef or pastrami (1 to 2 oz.) or about ¼ cup thinly sliced Polish sausage or cooked Italian or linguisa sausage, 2 or 3 thin slices tomato, 3 or 4 mild onion rings, 5 or 6 sprigs fresh coriander.

If coals are low, you can assemble burritos right on the grill (you should be able to hold your hand close to the grill for 1 to 2 seconds without discomfort); or have a gas barbecue set at low. If the temperature of the coals is medium, fill and fold burritos, then place them on the barbecue.

Working quickly, distribute cheese in band down center of the tortilla, to within 1 to 2 inches of each edge; top with chili, meat, tomato, onion, and coriander (step 1). Fold narrow edges over filling (step 2), then fold one side over the filling and fold filled section over onto opposite edge of tortilla (step 3).

Let burrito cook, folded side down, until tortilla is toasted and crisp; turn smooth side down and let cook until toasted.

Meanwhile, you can put together add tional burritos. Serve immediately push to a cool area of the barbecue keep warm until served. The time takes for a burrito to toast varies. If t coals are too hot to use your fingers f turning burritos (use a wide spatul they will toast in 2 to 3 minutes on side. Watch carefully to avoid scorchin If coals are quite low, burritos may ta as long as 6 to 8 minutes on a side. Ea makes 1 generous serving.

Burritos Chiquitos. Follow directions f barbecued burritos but use 8- to 10-in flour tortillas, and use only half the fil ing for each; 2 make a generous servin

BILL ROSS

Burrito barbecue

First off the coals comes toasted corn to drench with lime. Then fold tortillas around meat, cheese, onions, tomatoes for a hot crusty sandwich

Turn filled section of tortilla over so folded side rests on grill

Eat hot burrito *like a sandwich; napkin catches any drips*

TERI SANDISON

arbecued Corn

or each serving, you will need 1 or 2 ırs of corn, ½ to 1 juicy lime, cut in edges, and salt.

trip husks and silk from each ear of orn. Lay corn on a grill 4 to 6 inches bove a solid bed of medium coals (or ıedium heat on a gas barbecue). Turn s needed to lightly brown a few kernels n all sides and for the remainder to turn anslucent, about 10 to 12 minutes.

ush cooked corn to a cool corner of ıe barbecue to keep warm until ready o eat. Squeeze fresh lime juice onto an ar of corn and sprinkle with salt. □

MICHAEL THOMPSON

Portland park. *Scouts spread gravel on path—a link in planned Forty Mile Loop*

Santa Cruz Mountains. *For building trail segment in a state park, each volunteer from*

Santa Monica Mountains. *She's pruning tangled undergrowth to make way for new hiking trail*

JERRY FREDRICK

Toddler leads way *on new volunteer-built nature trail in Santa Monica Mountains*

COMMUNITY ACTION:

Blisters and boulders, immense satisfaction and achievement

Volunteers are building miles and miles of trails

ishing Co. earned a patch (above)

esterners are hitting the trails these ys with new goals in mind. They're lunteering to help maintain and add w mileage to the West's vast network hiking and riding trails.

ıe upsurge in volunteerism comes none ɔ soon. Budget cuts and belt-tighten- g at all levels of government are re- cing funds and professional manpower r trail maintenance and construction. ow, volunteer workers seem essential existing trails are to be kept open and w trails built to accommodate increas- g numbers of hikers and equestrians.

ıis sense of urgency has spurred many ail groups to redouble their campaigns attract volunteer workers. Their ef- ırts are already paying off:

In Portland, volunteers are building ctions of the proposed Forty Mile oop, a trail that may eventually circle ıe city.

In Orange County, California, a Si- rra Club trail-maintenance task force as put in nearly 2,000 hours along 24 iiles of older trails in Cleveland Na- onal Forest—at times clearing stretches logged with brush 10 to 15 feet high.

Outside Tucson, a regional hiking club has built two vital links in the Coronado National Forest trail system.

Elsewhere, individuals, conservation groups, and even corporations are responding to the challenge.

In June, more than a score of employees of Lane Publishing Co. and their families, in cooperation with the Sempervirens Fund, journeyed into northern California's Santa Cruz Mountains to build a stretch of the new Lane-Sunset Rim Trail in Big Basin Redwoods State Park.

How volunteers cut the high cost of trail work

Most of the West's trails are on public land. Consequently, much of the recent trail construction and maintenance has been done by professional crews or government-sponsored conservation corps. It's expensive work.

According to Craig Evans of the American Hiking Society (AHS), studies show that government-built trails can cost up to $5,000 per mile (much more in difficult terrain). Volunteers can do it for as little as $15 a mile. Government maintenance costs $100 to $2,000 per mile; volunteers can do the job for $10 a mile or less.

The big difference is due mostly to free labor. Also, tax breaks encourage corporations to donate money or materials (tools, for example) to trail-building clubs. Sometimes, U.S. Army Reserve or similar units may be willing to lend their heavy machinery and engineering skills as part of a training exercise.

National trails bill seeks to stimulate volunteerism

If enacted, a national trails bill (H.R. 861), initiated by the AHS and now being considered by Congress, could help reduce government involvement in the trail-building business and stimulate private clubs and volunteers to take over more of the task. The bill would provide small federal grants to private groups for maintaining and building trails in the National Trails System, as well as funds to train volunteers.

For a copy of the bill and other related information, write to the AHS, 1701 18th St. N.W., Washington, D.C. 20009. To express your views, write to your congressman.

Getting involved . . . for a day, or even for a trail-building "vacation"

Hiking or trail clubs are most effective in building neighborhood or state park trails. To link up with a local group (many sponsor special trail days), you can write to the AHS, which keeps a nationwide list. Or get in touch with chapters of the Sierra Club and other conservation groups, state parks, and parks and recreation departments.

Logistically, it's more difficult to get volunteers to work in distant national forests and parks or other federal land, but the job there is perhaps more critical. Louise Marshall, publisher of a Northwest hikers' magazine, says federal trail maintenance cutbacks this year (greater cuts are proposed for 1982) are a potential disaster for hikers. "It may be a few years before the hiking public is aware of what this means. Without maintenance, forest trails can just disappear into the undergrowth in a few years." The problem could be especially acute in the moist Pacific Northwest.

Marshall has compiled a directory called *Volunteer "Vacations" in America's Public Lands*, which lists trail-related volunteer jobs in national forests and parks. It's available for $2.95 from *Signpost*, 16812 36th Ave. W., Lynnwood, Wash. 98036, or from the AHS (address above).

Or contact the nearest ranger district of the U.S. Forest Service, National Park Service, or Bureau of Land Management. These agencies are anxious to hear from volunteers; some assign staff members to work with them.

A day on the trail. What's it like?

Help build a trail anywhere in the West and you'll walk our terrain with renewed respect. Trail building is strenuous work that offers special rewards: the satisfaction of working in the wilds, a well-built trail you and others can use, and perhaps a colorful patch to honor your contribution.

Anyone who's physically fit—from Boy Scouts to seniors—can be an effective volunteer trail worker; you can often choose a task suited to your capabilities.

Some efforts are day projects; perhaps you'll carpool to the trailhead, then walk to your work. In wilderness areas, you may backpack in with a group, carrying tools, gear, and food for an overnight campout.

What will you need? Wear long pants, a long-sleeved shirt, sturdy shoes or hiking boots, work gloves, and a hat, and carry plenty of water.

You may be supplied with tools, including specialized implements such as a Pulaski or a McLeod. But due to recent budget cuts, you might be asked to bring one of your own garden tools—a strong shovel or heavy-duty pruning shears. (Your gardening skills could prove handy on the trail.)

Depending on where you'll work, you may be cautioned to watch out for poison oak, rattlesnakes, or—in the Southwest—scorpions.

What will you do? Sponsors or rangers normally provide basic instruction. Trail building often involves clearing undergrowth, digging down to mineral soil, and banking and leveling the path. How far and how fast the work proceeds will depend on the terrain, covering vegetation, soil composition, the weather, and the number of volunteers in your party.

There are plenty of other chores. On existing trails, maintenance work may involve clearing overgrown brush and weeds, repairing washouts, taking erosion-control measures, or cleaning up litter. □

Afloat *in la*
frilly lace,
prepares to
huapango from Ve

Folklórico . . . California's own

Mexico's flamboyant folk ballet has crossed the border. Here's where you can watch local dancers . . . or even join in

Long, full skirts *typify dancers from Guadalajara region. This one shows her boots as she demonstrates a basic jarabe step to enthusiastic beginner*

Seeing the Ballet Folklórico at the Palacio de las Bellas Artes in Mexico City can be the highlight of a south-of-the-border trip. The kaleidoscopic variety of the dances, the colorful costumes, and the energy of the music combine to create an unforgettable mosaic of Mexican culture.

Countless dances culled from the festivals and ceremonies of small villages throughout Mexico are the inspirations for the ballet. There is a dance for almost every stage or ceremony of Mexican life, from birth to death. In the 1950s, Amalia Hernandez choreographed some of these into exciting theatrical productions for the first Ballet Folklórico. Now troupes flourish in all corners of Mexico, many of them traveling north to make appearances here.

In the United States, particularly in the Southwest, more and more dancers have mastered the steps and choreographed their own interpretations of the traditional dances.

Some groups specialize in the dances of one region; others present numbers from several regions. No two groups perform the dances in quite the same way. Although all are based on traditional movements, some instructors closely follow the original folk version, others make more liberal interpretations.

Costumes are as important as the dance steps. Most familiar to Westerners are the gathered skirts supported by layers of petticoats worn for the *jarabes* of Jalisco, such as the Mexican hat dance. Musical groups known as mariachis playing violins, guitars, and trumpets accompany these lively dances.

Long, white lace dresses with frilly lace trains identify female dancers from Veracruz, while their male partners appear in white suits, kerchiefs, and straw hats. A high-tuned harp and small guitars accompany rapid heel dances like La Bamba. Elaborate headdresses are often worn for Aztec ceremonial dances, while masks of old men disguise young men for the dance of Los Viejitos.

In the West, Mexican dance enjoys its greatest popularity in Southern California; our color photographs were taken at UCLA, where a gathering of more than 20 groups occurs each April. If you're visiting Los Angeles, be sure to stop by El Pueblo State Historic Park. Here, daily in summer and on weekends the rest of the year, dancers and other entertainers perform along Olvera Street from about noon to dusk. In San Diego, head for the Bazaar del Mundo in Old Town State Park, where the Hispanic Mexican Ballet performs Saturdays from 1 to 4.

But folklórico groups have organized in every Western state. For help finding a group in your area, send a stamped, self-addressed envelope to Folklórico, *Sunset Magazine*, Menlo Park, Calif. 94025.

Here is a sampling of folklórico performances in August and September in Northern California and Colorado. Some events feature both local groups and ones from Mexico. Expect to see performers of all ages, tiny tots to seni
Next month, there is likely to be a flu
of concerts as Mexican communities
the West celebrate Mexican indep
dence day on September 16. Check y
newspaper for details.

NORTHERN CALIFORNIA

Sacramento. August 21 to September 8. California State Fair (east of I-80 at Exposition Boulevard). In the biggest folklórico event this month, dance groups from Mexico City, Guadalajara, Chihuahua, Los Angeles, Fresno, and Albuquerque will alternate with mariach in hourly performances, daily 1 to 9:15.

Monterey. August 23. At 6:30 P.M., Los Lupeños will give an hour-long concert of dances from four regions of Mexico at Monterey County Fair. Take Casa Verde Way exit off State 1, turn left to fairgrounds.

Cloverdale. September 12. As part of Harvest Fair, Los Lupeños will perform at 8 P.M. at the Citrus Fairgrounds. Take U.S. 101 to Citrus Fair Drive.

San Jose. September 13. Two San Jose groups, Aztlan Folklórico and Los Lupeños, will dance at the city's Mexican independence day celebration downtown at Paseo de San Antonio, pedestrian mall between Third Street and Almaden Boulevard; 10 A.M. to 7 P.M.

San Francisco. September 15. Oakland-based Ballet Folklórico de Carlos Moren performs in front of City Hall; 8 to 11 P.M

COLORADO

Colorado Springs. August 1. Quinto Sol, a Coronado High School group, will perform at 2 P.M. in Dorchester Park, between Nevada Avenue and Tejon Stree as part of two-day Fiesta Guadalutana.

For information about other performance to celebrate Mexican independence day, call the following groups: Ballet Folklóric del Sol de Sacramento, (916) 447-2136; Ballet Folklórico del Alma, UC Davis, (916) 752-2027; Danzantes de Aztlan, California State University Fresno, (209) 487-2848.

Plumed headdresses *bob and*
as glittering shoes r
the ground in La Pluma,
dance based on the Spanish con

SUE LEVY DOOLEY

CHAD SLATTERY

Craggy mask *draws friendly tweak before performance of Los Viejitos, Michoacán dance of the old men*

Red rebozos swirl *and ruffled skirts whirl during a jarabe, similar to Mexican hat dance*

Fruit wine with fruit

What could be simpler . . . or more refreshing?

NORMAN A. PLATE

Spectrum *of color and flavor represents fruit and berry wines from Washington, Oregon, and California*

There's no debate that the best table wines are made from wine grapes. But to take the heat off summer, the West Coast's fruit and berry wines make stunningly simple coolers and desserts.

Pairing with fruit emphasizes the natural sweetness and fresh flavors of these wines. Variations are almost endless: you can echo the wine's flavor with the same type of fruit, or complement it with a different one.

The most widely available fruit wines—apricot, plum, peach, cherry, currant, pear, and any of the berry flavors—are some of the best for desserts. Look for them in well-stocked wine shops. You're likely to find selections from Washington, Oregon, and California, where superior growing conditions combine with widespread winemaking expertise.

Although their character varies from one winemaker to the next, currant, apricot, and berry wines generally taste most like the fruits they're made from. Strawberry, cherry, and plum wines tend to be less intense and sweeter. Pear and peach are mildest in flavor and usually have a delicate crispness. Keep opened bottles in the refrigerator.

Fruit Wine Coolers

In a generous wine glass, pour any fruit wine over shaved or crushed ice and garnish with a piece of fruit.

Fruit Wine Tumblers

In a small pan, heat 1 cup fruit wine just to boiling; cool slightly. Pour into an ice cube tray and freeze until firm, about 2 hours. Fill glasses with equal parts wine ice cubes and chunks of fruit. Try currant wine with honeydew melon, a berry wine with crenshaw melon or pineapple, cherry wine with peaches. Serves 2.

Fruit Wine Slushes

Prepare wine ice cubes as for above recipe. In a blender, whirl cubes with about 1 cup fruit pieces until slushy; add a squeeze of fresh lime or lemon juice. Try apricot or raspberry wine with peaches, loganberry or blackberry wine with pears. Serves 2 or 3.

Bartlett Pears Poached in Fruit Wine

In a 3-quart pan, combine 1½ cups fruit wine (try plum, apricot, currant, or berry wine), a 2-inch stick of cinnamon, ¼ cup sugar, and 4 thin orange slices. Bring to a boil, stirring.

Peel 4 large pears, leaving stems attached; cut out core from blossom ends. Simmer, covered, in wine mixture, turning 2 or 3 times, for 15 minutes or until tender. Remove fruit to serving dishes. Boil liquid until reduced to ⅓ cup; pour over pears. Chill. Serves 4.

Fresh Berries in Fruit Wine Gelatin

In a small pan, combine 1 package unflavored gelatin, ¼ cup sugar, and ½ cup cold water; let stand for 5 minutes. Bring to a boil, stirring, over medium heat; add 1½ cups fruit wine (try pear, peach, or strawberry). Pour into 4 large wine goblets; skim off foam. Chill until slightly thick, then fold 6 to 8 berries (such as raspberries, boysenberries, or cut strawberries) into each dish. Chill until set. Serves 4. □

The simplest way *to make a cool refresher: splash fruit wine over crushed ice. Here strawberry wine covers a peach slice*

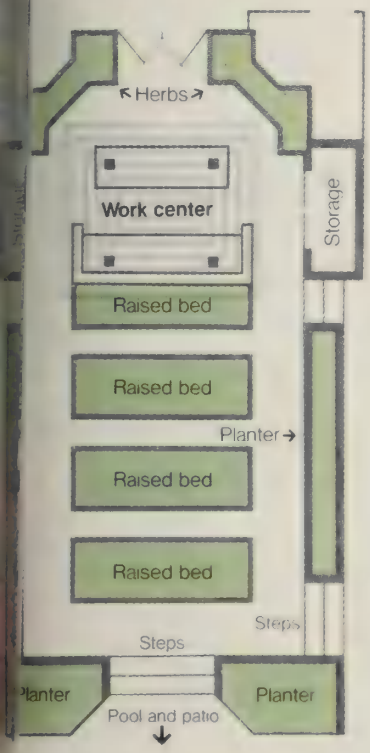
Wine slush *is made from frozen apricot wine, a fresh peach, and lime juice*

Chilled Bartlett *was poached until tender in plum wine spiced with orange, cinnamon, and cloves*

Fruit wine tumbler *combines cubes of frozen currant wine with juicy honeydew melon balls*

Raspberries *are suspended in clear pear wine gelatin, served in a large goblet*

y garden *backed by work center own from main garden level. plies flowers for arrangements: roses arguerites from raised beds in center, peas from planter at far left. the steps have a frothy combination s and lobelia next to verbena in ground*



zebo-like work center *has le counters with shelves below containers; more storage n fences at each side. ised counter (above) holds anging display of plants*

Garden work center is also a garden showplace

Raised beds, work counters, and ample storage are the basic elements of this work center and cutting garden. But because the area is visible from the house and patio, landscape architect Emery Rogers of San Francisco gave its design and detailing much more attention than such projects—relegated to out-of-the-way garden space—usually get.

The layout, as shown in the plan at left, occupies an area 24 by 44 feet.

Work center: shaded, simple in design

The work center consists of two counters 3 feet wide and 12 feet long with shelves underneath. The one visible from the house has an 18-inch-wide raised cap that shields the work surfaces from view and serves to display potted plants.

Fences surround the work center on three sides; garden tools and supplies are stored in two tall closets designed into the fences. There is a water faucet but no sink.

The center's trellis-like roof, of decoratively cut 2 by 10's covered with 2 by 2's on 4-inch centers, is supported by 4-by-4 posts trimmed with 1 by 3's. Two ¾-inch steel rods with turnbuckles provide cross bracing.

Raised beds to supply cut flowers

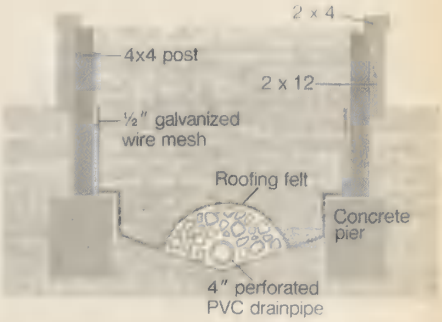
The owner is an avid gardener whose greatest enjoyment is growing flowers for arrangements. Roses are her favorites, so they fill three of the raised beds. For color and lasting quality as cut flowers, she chose only four varieties (27 plants in all): 'Bewitched' (rose pink), 'Seashell' (salmon), 'Pascali' (pure white), and 'Double Delight' (cherry red, cream, and white blend).

In a fourth bed, across the front of the work center, billowy marguerites provide a steady source of cut flowers and an evergreen background to the winter-dormant roses.

Sweet peas grow against the back wall of the garage, and herbs fill small raised beds behind the work center. Not shown in the plan are other raised beds on an adjacent slope; these are planted in annuals and perennials valued more for their cut flowers than for their orderly appearance.

The 4- by 12-foot beds have wire mesh across their bottoms to thwart tunneling gophers and moles (see sketch below). The mesh is stapled to the bed's wooden sides and posts. Because of the site and soil conditions, drainpipes were set under the raised beds; in most situations, drains wouldn't be necessary. Decomposed granite covers walking surfaces throughout the area.

Beyond the work center, bulk materials such as sand, peat, and soil are kept. A gate from the driveway facilitates deliveries of all gardening materials. (Credit for the project also includes Bill White and Ernst Lehmann.) □



Cross-section *of raised bed shows how permeable roofing felt prevents soil from washing into rock surrounding drainpipe 3 feet below soil surface*

NORMAN A. PLA

Canvas-topped parasol, *copied from Italian original, has collapsible wooden frame in freestanding flowerpot base* *(see page 102)*

European shademaker... canvas and wood

You can make your own, smaller or bigger, for about $50

arkling in crisp, bright hues, pyramid-aped parasols dot the Italian and rench Mediterranean coasts. Some are ntered in tables, others stand free.

ney have come to this country in vari-s shapes and sizes, costing up to $500. e've made our own version, 66 inches ide—a size that can easily be scaled up down. Wood dowels connected to oc-gonal hubs support the canvas; the wer hub slides vertically to allow the rasol to fold. Total cost was about $50: 20 for the frame, of wood available at ost lumberyards; $30 for 5 yards of 5-inch-wide medium-weight canvas.

o assemble the frame, you'll need an foot 1⅝-inch closet rod, 2 feet by 1-x-6 fir for hubs, four 3-foot and four foot lengths of ¾-inch hardwood owel for spokes, eight 1-inch-long eye rews, and 3-foot lengths of ¼- and ⅜-ch dowels. You'll need a power drill ith ¼-, ⅜-, and ⅞-inch bits and an xpandable bit or 1¾-inch hole saw—nd a sewing machine with a heavy-duty eedle.

he octagonal hubs and the spokes

he hubs are the most complex parts of e project (the sketch shows how to raw them). After cutting out four octa-ons from the 1 by 6, measure the actual ameter of the closet rod (ours was 1½ ches). Set an expandable bit or hole-w attachment ¼ inch wider than the d, and drill through the center of three f the four pieces. (The undrilled piece the top of the upper hub; its crews to e end of the pole.)

o assemble each hub, turn the two ieces so the wood grain is perpendicular nd glue together with waterproof glue. lamp and let dry overnight.

he umbrella's spoke dowels move up nd down in four round-ended notches ut into each hub. Start notches by drill-ng four ⅞-inch-diameter holes through each hub as shown. Cut out the remainder of each notch with a saw.

Round the ends of the eight spoke dowels; ½ inch from one end, center and drill a ⅜-inch hole. (The spokes will pivot on ¼-inch dowel pins that pass through these holes.) Drill the holes for the pins, using the drawing as a guide. Sand and seal all wooden parts.

Assemble the upper hub using the 4-foot-long dowels for the canopy-supporting spokes. Cut 3-inch pins out of the ¼-inch dowel; glue them into the sides of the hubs (remember to slip them through the holes in the end of the dowel and back into the hub). Check that the spokes can pivot freely before trimming off excess dowel. Screw and glue the top hub to the top of the center pole.

The connection point between the upper and lower spokes is shown in the lower right picture. Use a pair of pliers to open four eye screws, then slip a second eye screw onto each and squeeze the opening shut. Mount each double eye screw in predrilled holes on the underside of the upper spokes, 20 inches from the hub pivot point.

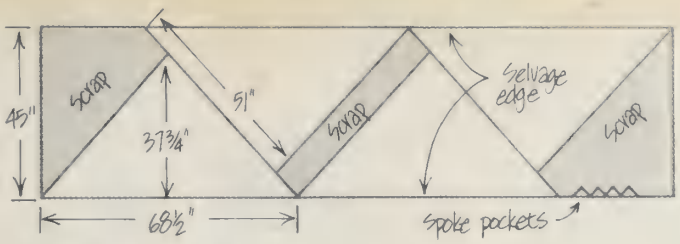
Drill another set of holes in one end of each 3-foot spoke dowel. Attach the dowels to the other eye screws.

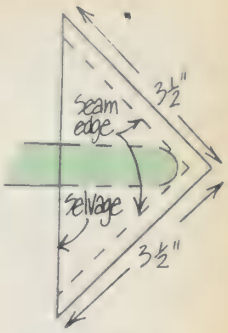
Join dowels to the lower hub. There is no tension on the ends of the spokes, so they will flop around until the canvas top is added.

Sewing the top; final assembly

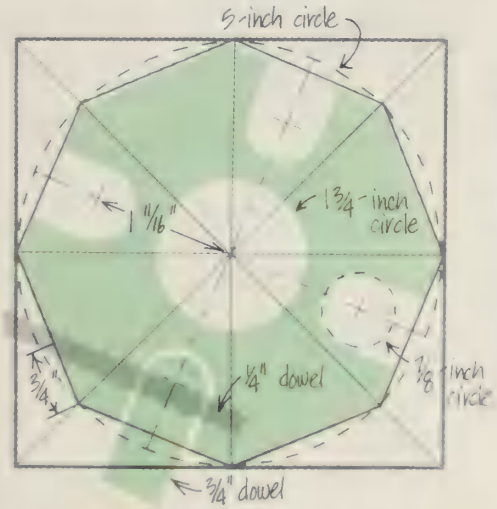
Make a paper pattern to dimensions shown in the top drawing. Transfer to fabric; cut out. Join pairs of triangles together along short sides, using flat-felled or other reinforced seam; join two halves together. From scrap, cut out four triangles to hold long spokes; sew them into corners of top.

The top holds the spokes in tension when the umbrella is open; it also determines how far up the center pole the lower hub can travel. With top on, slide hub as far up as it can go, then mark its underside. Drill a ⅜-inch hole through the pole so the top of the hole touches the spot. Insert a short peg of ⅜-inch dowel to hold the top in place. □

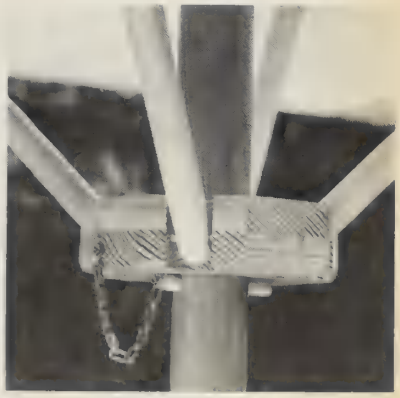




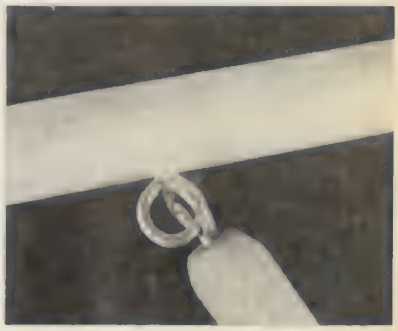
Use above drawings *as guide to cutting out pieces for canvas top; ½-inch seam allowed. Small triangles (see detail at right) hold dowel spokes in place; cut each with long side on selvage*



Octagonal wood hubs *are made from four pieces of 1 by 6, two per hub. To make pattern, draw a 5-inch square with a 5-inch circle in center. Connect intersecting points to form an octagon as shown. Mark location for center hole and four smaller holes. Sketch also shows positions of ¼-inch dowels through spokes*



Dowel pin *through parasol handle locks hub in position to hold up canopy; small chain keeps pin handy*



Interlocked eye screws *form pivot point between ribs and spokes. Bend one eye screw open to fit into other*

In filtered light *under canvas umbrellas, customers of a cafe in the piazza fronting e Pantheon in Rome enjoy a morning drink*
GLENN CHRISTIANSEN

JERRY FREDE

Headband *made of weight-filled foam rubber fastens with Velcro strap. It works swimmer's neck, shoulder, back muso*

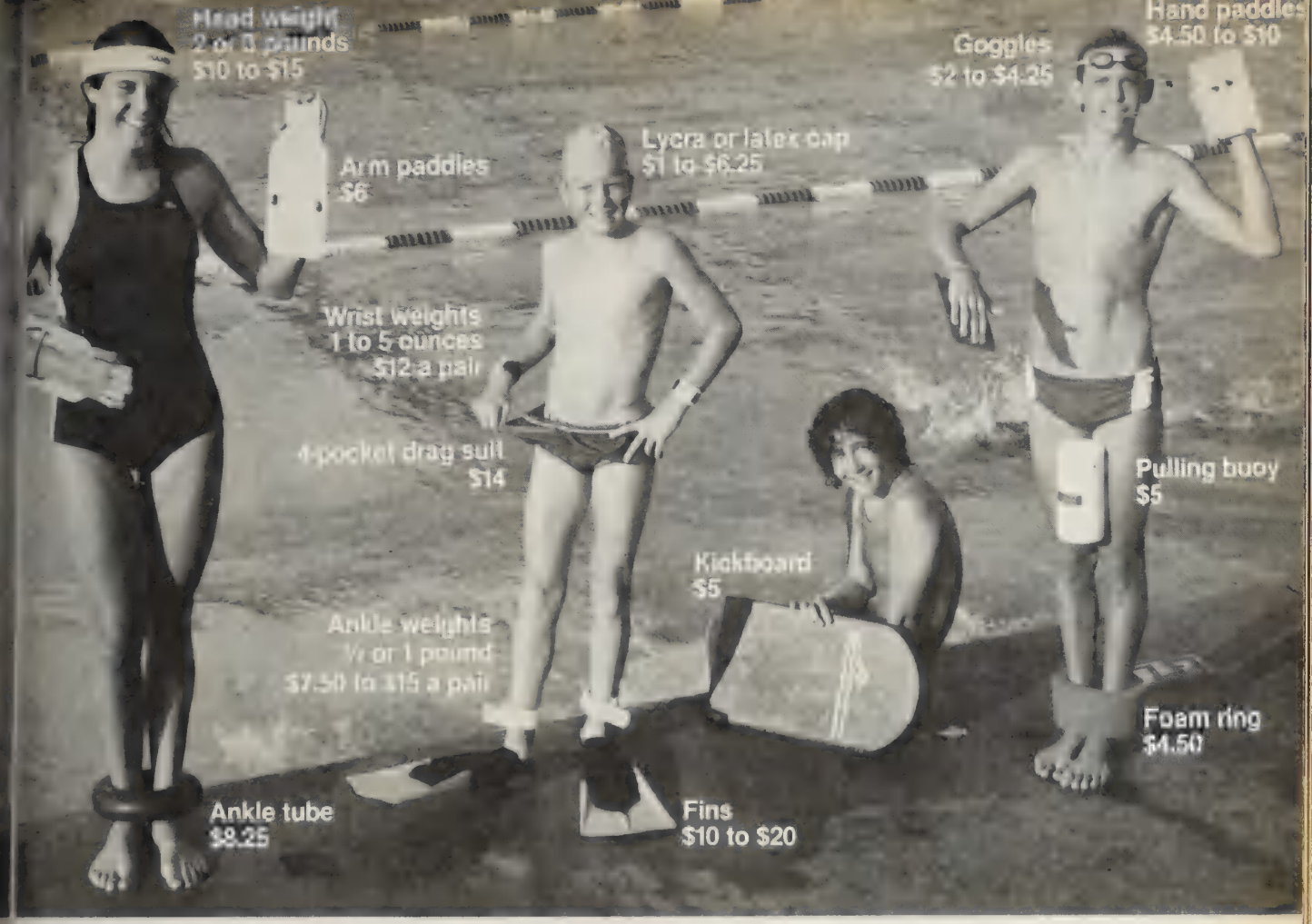
Why would he put a ring on his head?

To make swimming even more of a workout. There are many other new ways: hobbles, paddles, "drag" suits, weights (sounds like fun, doesn't it?)

You "grab" more water *with paddles, so your arms work harder. Also, you can tell quickly if you're not pulling correctly*

Whether you dive in for competition just for exercise, swimming is traditio ally a stripped-for-action sport. Yet growing array of appendages are helpi young competitors train for world-reco speeds. These same training aids can i crease the benefit of a back-yard neighborhood pool workout as we Coaches say that, at very least, the equi ment adds variety to the routine multilap workouts.

Most of the devices pictured here he



irteen kinds *of training aids help these Southern California competitors get the most out of their pool workouts*

ight bracelets *are for wrist ankle. Use 1-ounce case pty, or add up to three ights (total: 5 ounces)*

Leg hobbles *build endurance while you work on arm pull. Foam ring fills with water, creates the most drag; figure-eight tube adds least*

Poolside pace clock *tells long-distance lappers at a glance how fast they are going. Cost: $90 in this style; smaller models also available*

ild upper body strength. A few are for :king; one fends off chlorine; another lps you pace yourself. Look for them well-stocked sporting goods stores.

ınd and arm paddles come in several es and are held on by stretchy bands. art with a small size, then increase :e gradually as arms strengthen. (If ıu have chronic shoulder problems, oid using paddles—they increase stress ı the joint.)

ıe drag suit is for both men and women. Wear it over a regular suit and its big pockets will fill with water to create drag as you swim.

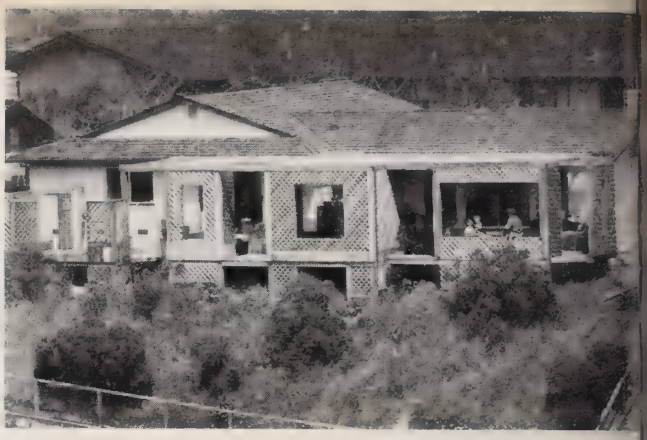
Swimmers who claim to sink like a stone should consider a pulling buoy—two cylindrical foam plastic floats held a leg's width apart by webbing straps. The buoy keeps your body high in the water. Used with a leg-hobbling foam ring, it counteracts the ring's strong downward drag.

A kickboard is still a staple, but adding ankle weights makes kick work harder. Fins increase resistance and help ankle and foot flexibility.

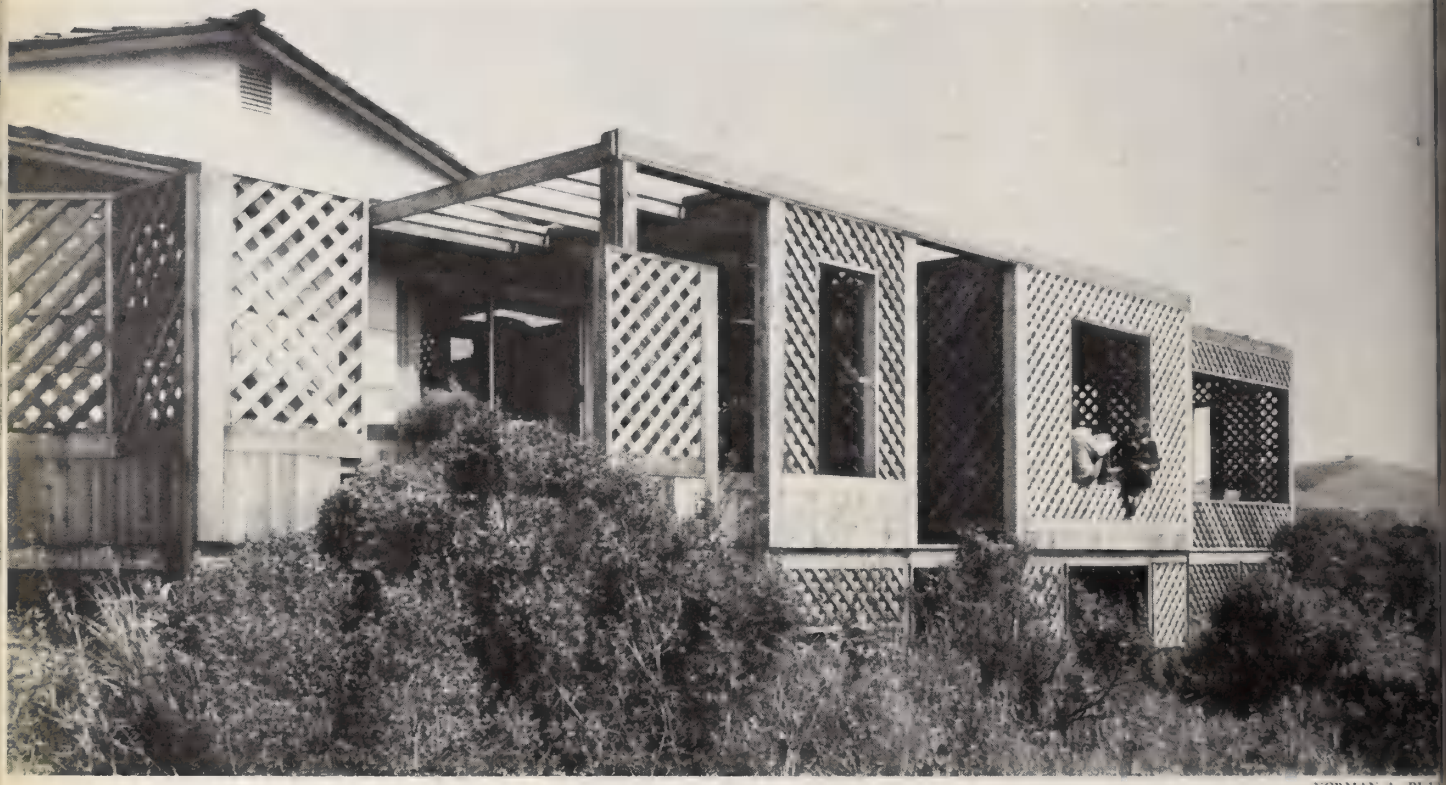
Goggles cut chlorine exposure, and brown- or amber-tinted lenses significantly cut glare. Lens shape varies. If you'll need to keep an eye on poolside activities as you swim, choose bigger lenses to get better peripheral vision.

If you have difficulty finding any of the items pictured, write to Swim Equipment Editor, *Sunset Magazine*, Menlo Park, Calif. 94025. □

Exposed *to the wind, afternoon sun, and street below, this ranch-style house had an unusable back yard*



Masked *with latticework, new multilevel deck creates a series of private outdoor rooms with picture windows*



NORMAN A. PLA

New lattice facade *hides most of the old house. The portico's roof is open in some area covered with translucent fiberglass panels in othe*

Latticework works wonders

Simple lath strips create privacy, a new look, and a new way of viewing. On the following pages, more ways to use "architectural lace"

ting pretty *on her new deck, Diane Bowie has an edited view over neighbors d the street, making distant view across a canyon seem closer*

ıe architectural lace known as lattice created by laying wood strips over ch other in an open geometric pattern. ıis light filigree effect has been a part Western architecture since the Arabs ossed into Southern Europe, but its eatest popularity came in Victorian signs for everything from interior parions to garden gazebos.

n these four pages, we show four exnples of how architects have incorpoted lattice into contemporary design: ree are additions to existing houses, ıd one is an integral part of a new ouse's design. They chose lattice as a ersatile material to solve specific probms: for privacy and temperature conol, to blend new and old, to soften a rge or ungainly form.

Editing sun and view, gaining privacy

Out the back door of Diane and David Bowie's hillside house in Orinda, California, it used to be all downhill: the yard fell off sharply, the wind raced across narrow catwalk balconies, and afternoon sun forced view-blocking blinds down over exposed west windows.

Architect Peter R. Stevans of the Topland Group, Park City, Utah, combined redwood decks with fiberglass roof sections and diagonally latticed walls to create the handsome, habitable back porch you see above and at right.

Framed cutouts in the panels create windows that control views from the deck or inside. Cutouts in the fiberglass roof allow controlled amounts of sunlight to penetrate to the house. The crisscrossed

Private hot tub area *was made possible by the concealing, but not confining, effect of the fretwork panels*

GLENN CHRISTIAN

After. *Light filtering through and bouncing off the latticework makes a strong but ethereal form. New deck continues into garden*

Before. *Original front elevation of this Vashon Island, Washington, house had abrupt entry, no transition between house and outdoors*

Lacy loggia. *New lattice wrap barely touches old house. Plantings will soon soften the light gray woodwork and pavers*

Above, a whole new face. Below, a curving cover-up

boards block some wind, but the psychological effect of the partial barrier is probably an equal comfort factor.

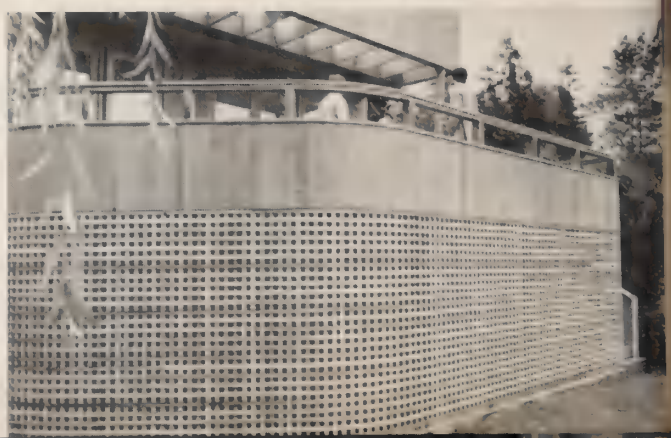
Blending old and new

In planning the extensive remodel of Diane and Terry Heckler's house, Seattle architects Canatsey-Weinstein also chose a lattice envelope (above). The lightweight and relatively inexpensive material helped wed the new with the old and give continuity to the façade.

Here, the false front also wraps around a new elevated deck and even crosses in front of a few existing windows. But b cause the lattice is stepped away fro most of the house, sunlight that strik the panels bounces back towards th house and windows, resulting in mo morning light on this western exposure.

Canatsey-Weinstein also used lattice i

Perfect cover-up. *Remodeled house on Lake Washington gets a lath wrap. Lattice hides the basement rooms and storage areas, but they still get some light and ventilation. Only ¼ inch thick, lath is easy to bend around curves and nail or staple into place*



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their remodel of Douglas and Deborah Rosen's house on Lake Washington. In this case, the lattice tidied up the basement level under a new deck and room addition, hiding bikes, boats, mowers, and other clutter.

Lath wrap on a new house

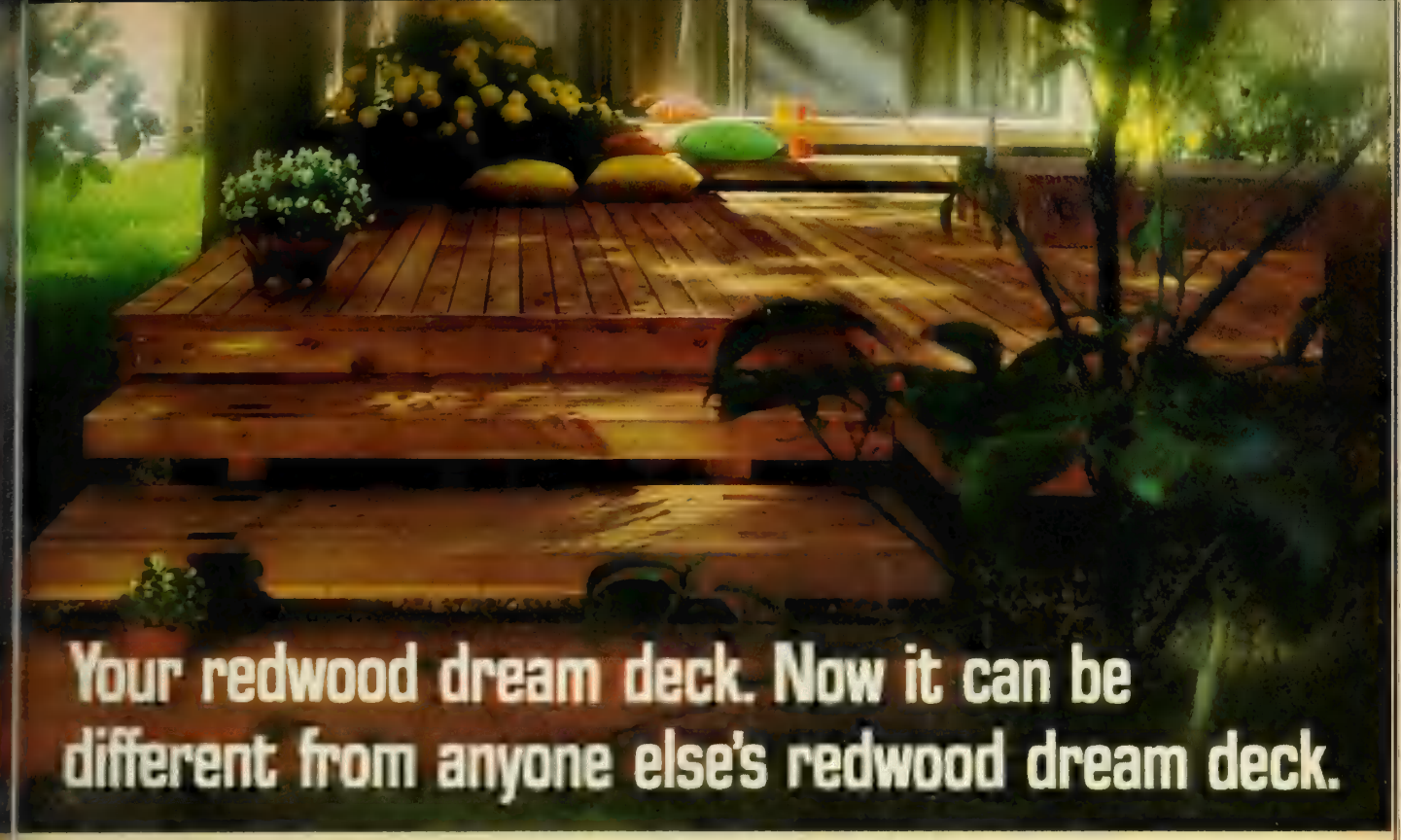
An undersize lot led Seattle architect Gerald A. Williams to lattice. To squeeze his two-story house's 2,700 square feet onto the property, it had to sit right on all setback lines. This left a rather tall, rectangular building. To soften the form, Williams designed double rows of almost freestanding lattice to flow around the building.

The house shown on pages 74 and 75 uses relatively heavy redwood 1 by 3's for lath. Our other examples use more common ¼- by 1½-inch lath. Their thinness causes the wood to dry out quickly, so especially where it is exposed to hot sun, join every crossing with nails, staples, or both. Paint or an oil stain can help preserve wood. (For obvious reasons, lath wrap is not recommended for high-risk fire areas.) □

Ribbons of lath wind around this Seattle house

Floating lath screens *curve around this narrow house, softening the hard-edge structure behind. Soon, bowers of flowers (mostly grapes and clematis) will bloom in the sun creating leafy eyebrows shading south-facing windows*

GLENN CHRISTIANSEN



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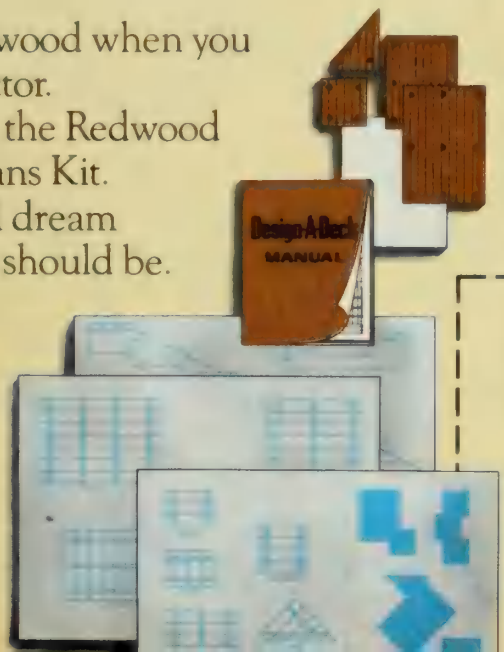

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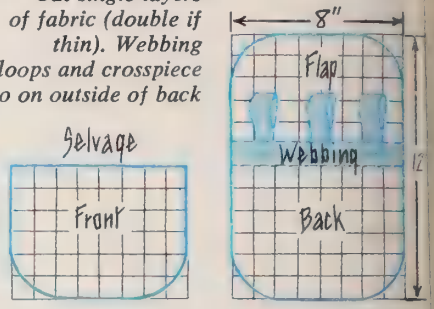
Redwood – a renewable resource

DARROW M. WATT

On or off the bike, *she finds belt bag handy for carrying money and other essentials*

Belt bag for a biker

Cut *single layers of fabric (double if thin). Webbing loops and crosspiece go on outside of back*



Bikers, rollerskaters, and other active women often like to be unencumbered by a handbag or backpack. But where can you carry cash, keys, and credit cards if garments don't have pockets? One answer is this easily made bag that fits smoothly under a jacket or coat.

To make it, you'll need ¼ yard of duck or denim, a package of 1-inch-wide double-fold bias tape, two round hook-and-loop (Velcro) fabric fasteners (or two 1- by 4-inch hook-and-loop strips), 1 yard of 1- or 1¼-inch-wide webbing. Add decorative buttons if you wish.

On paper, enlarge the pattern above; place on fabric and cut out pieces. Cut three 6-inch pieces of webbing for the belt loops, fold each in half, and stitch them under an 8-inch piece of webbing a shown in the diagram. (If you like, mak a matching belt of similar webbing.)

Place wrong sides of bag front and bac together, fold bag flap over front (se photograph), and mark placement c fasteners; sew or glue in place. Next with bag front in place and flap opened baste bias tape around the bag, enclosin all raw edges and webbing; stitch. Th bag is done.

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NORMAN A. PLATE

Handrail *and lower guardrail flank the staircase, mount to wall*

Thin-walled *copper rail and T-fitting are joined with solder for permanent bond*

Railing is industrial copper

Industrial-size copper pipe, 2½ inches in diameter, adds a touch of elegance to this Santa Rosa, California, house. The pipe is used with 90° elbows and T-fittings to make handsome railings along the stairway and balcony. Their polished and lacquered finish contrasts with the rough-sawn redwood rails and walls.

To anchor the pipe securely, Gary Tobey of Design Concepts screwed a circle of wood (which fits snugly inside the pipe) to a stud, then slipped the pipe end over the circle. A screw through the pipe into the wood holds the pipe in place.

Copper pipe costs about $5 a foot. Look in the yellow pages under Pipe. ▫

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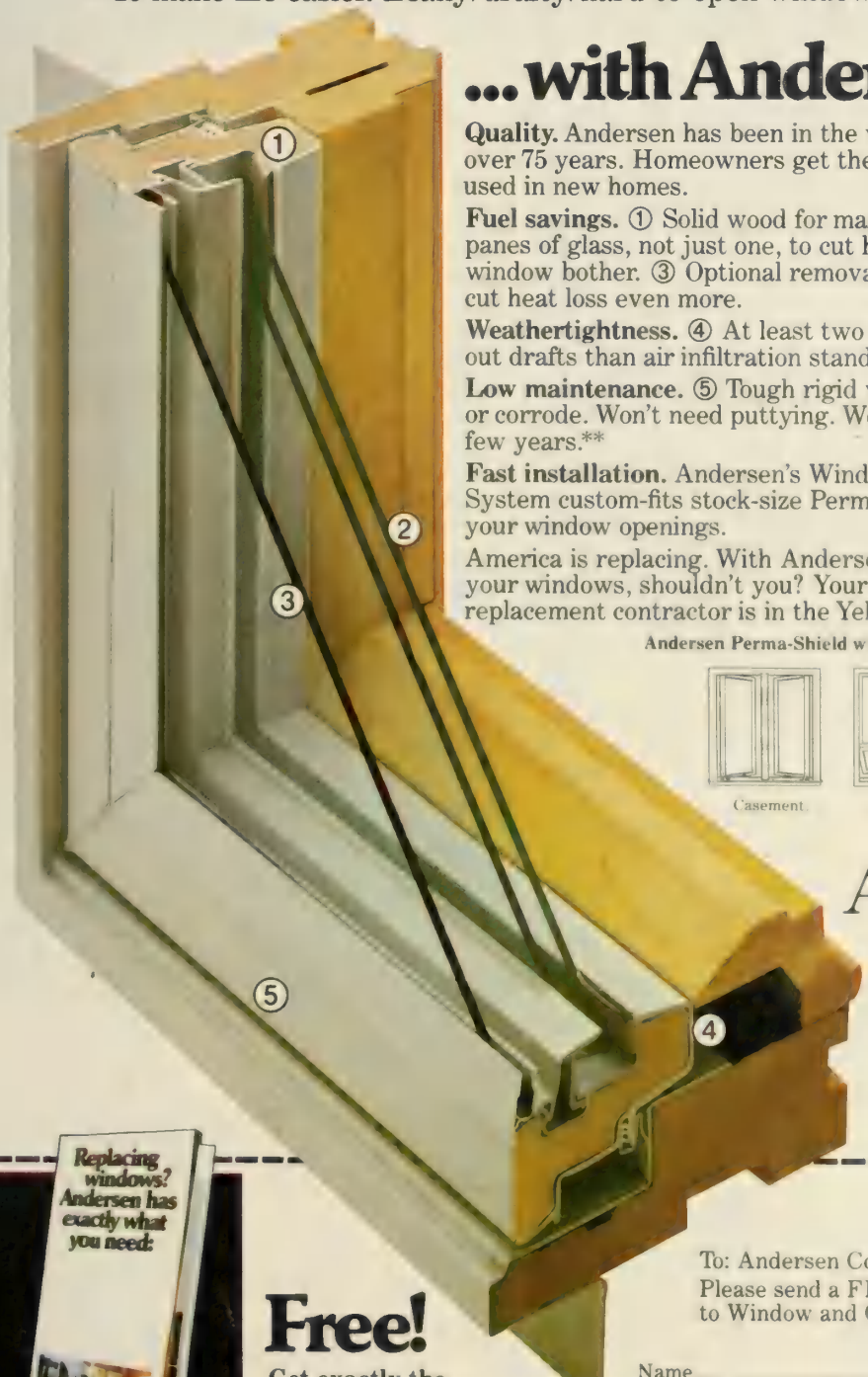

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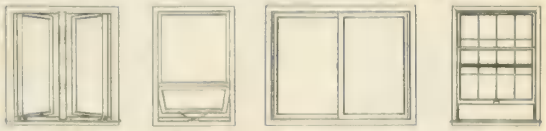

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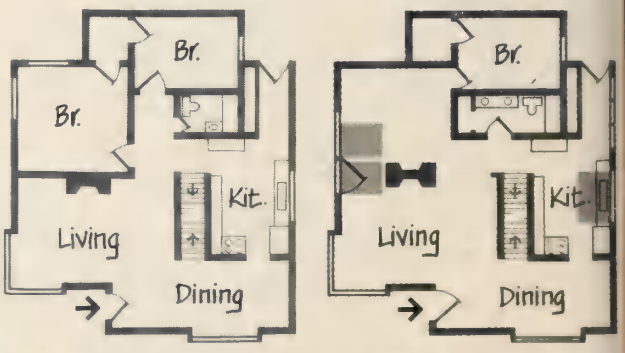
Enlarged freestanding chimney *divides interior spaces without sealing them off. Skylights and glass door add natural light*

DON NORMARK

Open doorway, *continuous hardwood floors extend kitchen visually. Shallow shelving for glassware fits alongside refrigerator and sink*

Built-in dining room storage *eliminates need for sideboard, making room appear more spacious*

Now 1,435 square feet seems spacious. Walls came down. Skylights and glass went in. New and efficient kitchen



Before and after. *Kitchen walls were unchanged; most other walls were altered. Gray panels in "after" diagram show skylights*

Tiny-looking house *sits above street, giving it privacy. Exterior of bungalow was remodeled in 1960s*

Increasing space without increasing square footage is a common challenge for home remodelers. In the house shown here and on page 86, designer Bill Mathers met the challenge: he took down walls, enlarged doors, installed skylights, and put in glass to bring in views of decks and garden.

Modifications to the original floor plan were few (see the plan above), but now the 1,435-square-foot house seems much more spacious.

Removing nonbearing walls turned living room, dining room, and den into one large L-shaped space. The chimney was taken down and rebuilt (the most expensive aspect of the project). The new chimney—30 percent wider than the old and with a hearth on each side—breaks the view between living room and den without dividing them completely.

Off the living and dining rooms, doors to the outside were cut larger. Their glass panels let in natural light and allow all the room to borrow space from outside. When weather is warm, the big doors stand open to keep a cooling breeze flowing through. Two double-glazed skylights near the new chimney and another over the kitchen sink also

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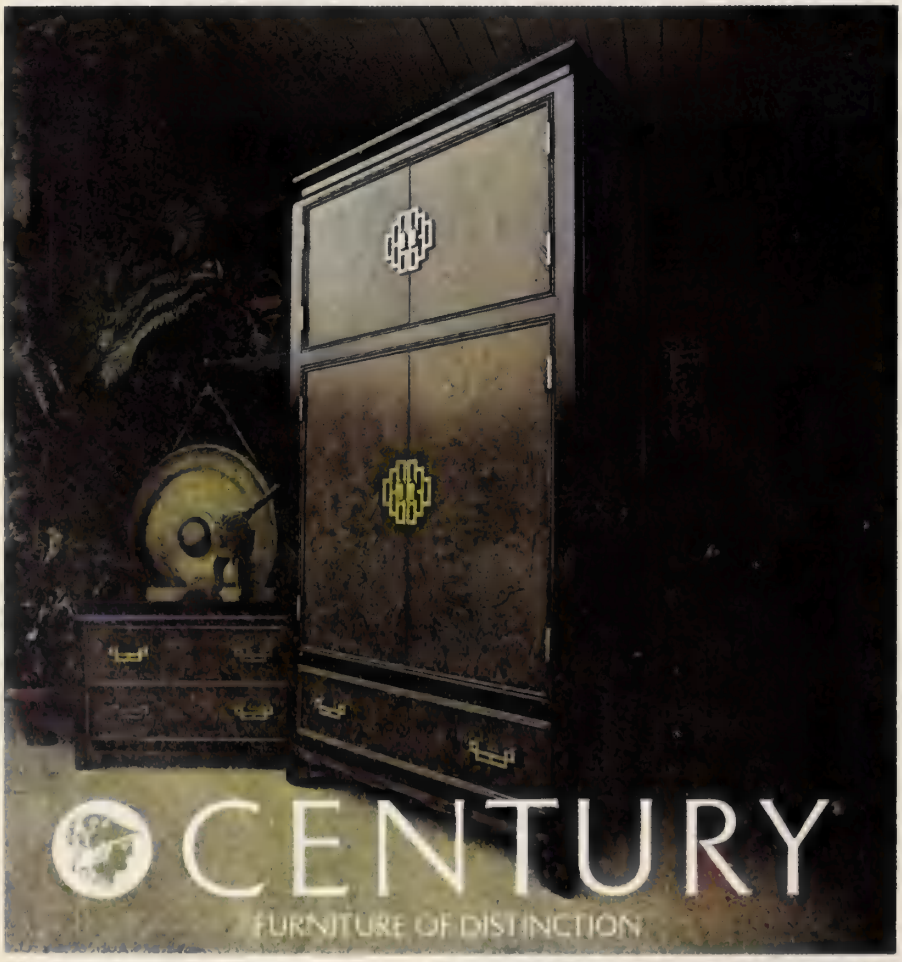

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DON NORMARK

Between-studs shelf *for canned goods uses normally wasted space*

Tile-topped counter *with built-in dining room storage has recessed light*

help open the house and bring in daylight, reducing electricity consumption during the day.

In the kitchen—an important element in this entertaining-oriented household—remodeling emphasized simplicity and efficiency: cupboards, counters, and appliances are all bare-bones and hard working; ample track lighting keeps the room birght at night. And here as throughout the house, oak floors and an off-white background color unify the whole to make it appear bigger and keep it bright. Even with 50 guests, the house seems roomy and traffic flows. □

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MARGARET W. PETERSON

Two hits, one miss. *Party guest tosses ring toward fingertip. Plywood clown's gaping mouth is target for sand-filled socks*

Midway games in the back yard

When Kathy and Sam Felix of Portola Valley, California, staged a back-yard carnival for their children's friends, easy-to-make board games were the key to the party's success.

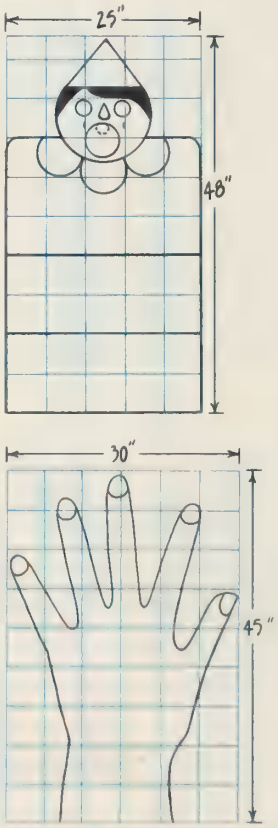
Coached by teen-agers dressed as clowns, little guests (age 4 to 7) took turns at the games, tossing rope rings over the fingers of a plywood hand and sand-filled socks through a plywood clown's mouth.

To make these two game boards, you'll need one 4-by-5-foot piece of ¼-inch AD shop-grade plywood; cut a 4-by-8-foot sheet (about $8) if necessary.

Scale up the patterns shown at right onto plywood, then cut plywood into two pieces between patterns. Cut out shapes with a saber or keyhole saw. For the clown's mouth, drill a 1-inch hole as indicated on pattern to start the saw. Use enamel for the designs.

To prop up each board, stick two 2½-foot-long garden stakes about 8 inches apart into the ground behind it.

Each of the six rings for the finger-ring toss game is made from a 20-inch piece of heavy rope bent into a circle and taped at the joint with electrician's tape. For the clown toss-through, old cotton socks can be filled with sand or dried beans, then tied off with string (you'll need to make about six). □



Scale up *patterns by penciling directly onto plywood using these 5-inch grids*

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PETER O. WHITELE

Antique brass beer spigot *mounted to oak cabinet dispenses bottled water*

Bottle stand *sits on sturdy shelf high enough for gravity flow. Footstool is needed for changing bottles*

Water bottle out of sight

Blue-tinged 5-gallon bottles of drinking water are a testimony to bad tap water. But despite the better taste of bottled water, many people object to the stand's bulky intrusion into a kitchen.

When Linda and Jim Theiring of Aptos, California, remodeled their kitchen, they wanted to get their bottle and its stand out of sight. Cabinet maker Sebastian Galata placed a 16-inch-wide, floor-to-ceiling closet next to one of the kitchen counters. He raised the stand 25 inches off the floor and replaced the regular faucet with a short length of nontoxic tubing running to a spigot mounted on the outside of the cabinet. ◻

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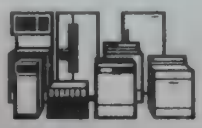

Quality. Our way of life.

PETER O. WHITELEY

House-wide deck *added more than 500 square feet of entertaining space that flows out from formerly dark dining area*

Goodbye to poky windows. Hello to two big new doors and a house-wide deck

The best feature of this Sacramento house was its tree-shrouded back yard, but small windows and a diminutive back stoop did little to invite people outdoors. When Marion and Stanley Leff bought the house, they wanted to reorient it to the yard, where they planned to do much of their summertime entertaining.

Architect Stephen Goldstein of Environment Plus designed a simple remodel that responded to their needs. Its major element is a 15- by 36-foot floor-height deck that runs across the width of the house. Goldstein added two 6-foot-wide sliding glass doors—one in the kitchen and one in a bedroom-study.

At one side of the deck, an angled peninsula juts into the yard to create an intimate seating area within the large deck. Wide built-in bench seats defining the deck's perimeter serve as both low-level safety railing and storage bins. □

Peninsula *at one side of redwood deck makes natural conversation area*

Perimeter bench seat *is hinged for storage. Plywood keeps water out*

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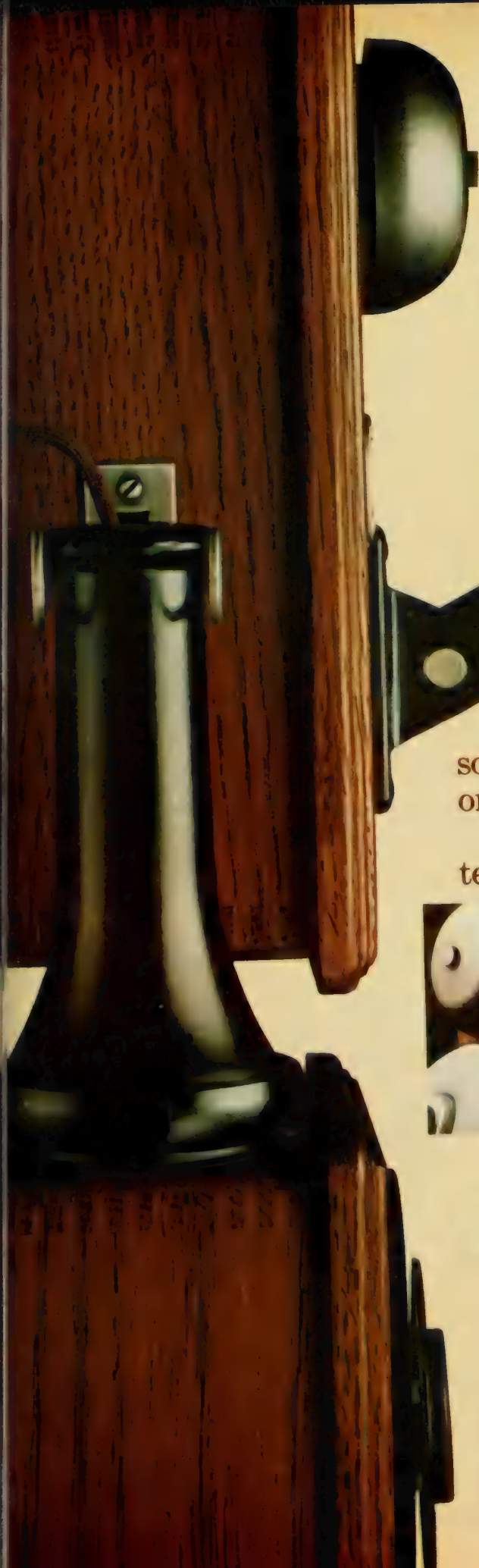

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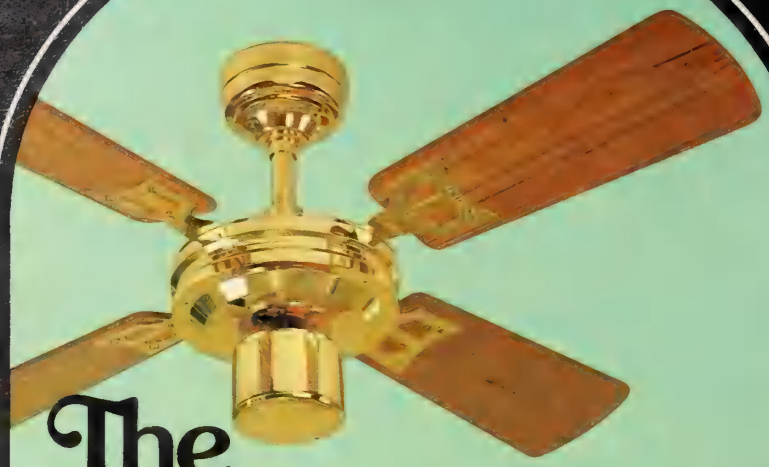

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PETER O. WHITE

Perched high *on a trellis, pipes provide sola heat to pool, shade for seating. U-shaped connectors make a continuous loop*

Camouflaging the solar pipes

Solar panels usually end up on a south-facing roof of house or garage. Although this is the most effective orientation for maximum heat gain, those black panels or pipes aren't the handsomest of exterior additions.

For heating a swimming pool in Sacramento, architect Len Blackford designed a trellis that solves this esthetic problem. He ran the collector—a continuous loop of parallel, 1½-inch, UV-resistant ABS pipes—on top of a sturdy wooden trellis, lifting it virtually out of sight.

The specially designed pipe has finned extrusions inside to help transfer heat to the circulating pool water. For more information on the pipe, write to SHS Durasolar Inc., 5045 L College Oak Dr., Sacramento 95841, or Sundial Solar Corporation, 2265 PFE Road, Roseville, Calif. 95678. □

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DON NORMAR

Sturdy rail *wraps around two sides of deck. It's high enough for safety over drop-off, but low enough for unobstructed view from table*

Wide, low step *makes 16-inch transition between levels, acts as a built-in bench*

Overlooking the San Joaquin River, a two-level view deck

At the edge of a bluff overlooking cotton fields and the San Joaquin near Fresno, this two-level deck was designed to take maximum advantage of a view.

The deck, which extends along the west side of the house, gets full afternoon sun. But unusually wide eaves overhang all window and door openings, keeping the house interior cool.

Douglas fir 4 by 4's set on concrete foundation blocks and cross-braced with 2 by 4's support the structures. Framing consists of 2-by-8 joists on 16-inch centers. Redwood 2 by 4's, left natural, are used for decking.

The wooden rail and 4-by-4 posts that hold it are stained dark to match the house. A slim steel bar brings the rail height to a safe 42 inches over the steep drop-off, offering the least possible interference with the view.

Architects L. Gene Zellmer Associates designed the house for Dr. and Mrs. Hal Coulston. ▫

"There are hundreds of houses better than mine, but I love this one.

I like big wonderful rooms with a lot of wall space. Art is important to me. I like mobiles and I like movement. It brings a room to life."

—*Andy Williams*

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Our high standards have won us the respect of the top interior designers and their clients. So we are invited—and sometimes, frankly, begged—to include some 700 interiors a year. From those we choose only la crème de la crème—one out of ten.

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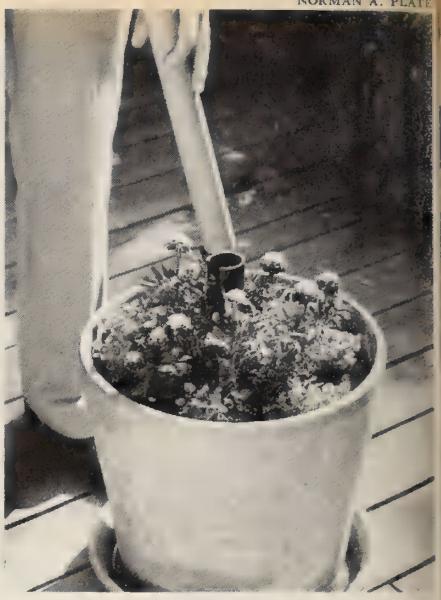
NORMAN A. PLATE



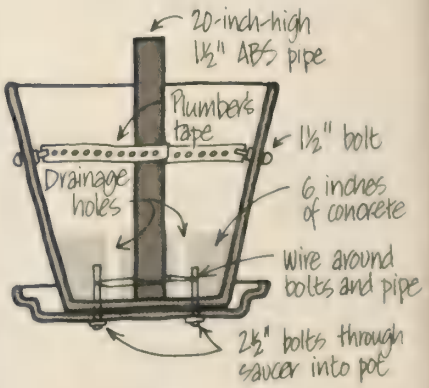
In pot center, *black plastic pipe holds umbrella pole. Pipe is anchored in concrete with holes for drainage*

Flowerpot's also an umbrella stand

The only giveaway that this flowerpot is more than decorative is the top of a pipe projecting through the marigolds. The pot's main use is as a freestanding base for the umbrella on page 70.

We bolted a 15-inch-wide saucer to the base of the 14-inch-high pot (using a ⅜-inch masonry bit to drill three holes through base and pot). Next, we centered a 20-inch length of 1½-inch-diameter plastic pipe at the bottom of the pot and wired it in place. Before filling the bottom with 6 inches of concrete, we plugged existing drainage holes with sections of ¾-inch dowel, which were removed when the concrete had set.

For additional strength, perforated metal plumber's tape wraps around the upper part of the pipe and attaches to bolts drilled through the pot's side. □



Layer of concrete *holds pipe vertical, improves pot's resistance to tipping*

'My Maytag Washer has been so great, got a Maytag Dryer and Dishwasher, oo," states Mrs. Whitehead.

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'm hoping we'll enjoy as many appy years with our Maytag ishwasher as we have with ur other Maytags," says Mrs. Iancy Whitehead, Oak Ridge, I.J.

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As hard as that washer has been working all these years, the repairman is still practically a stranger, according to Mrs. Whitehead. That's because Maytag Washers are built to last longer and save you money with fewer repairs.

"Later we purchased a Maytag Dryer," she states, and it has also proved to be a faithful workhorse. "Since our other Maytags have given us such great service, we naturally turned to Maytag for a dishwasher in 1979. I am delighted with my Maytag Dishwasher and hope to enjoy it a long time," concludes Mrs. Whitehead.

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Susan 7, Jimmy 10½, James and Nancy Whitehead

Mrs. Whitehead got her Maytag Dishwasher in 1979. It's a pleasure to use and it does a marvelous job of cleaning my dishes, she states.

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Planing mills and some lumber and building supply yards in the West own this kind of machine and others—including planers and molding duplicators—that the do-it-yourselfer could find very useful indeed.

Not every mill offers such services to the public, but it's often worth finding one that does. There's usually a $5 minimum charge; bigger jobs cost $30 to $50 per hour. To use a molding duplicator, called a "sticker," costs from $75 to $250 just for grinding the knives of the machine to the profile of the old molding to be matched, plus the running charge—which is generally lower if you buy the wood at the mill.

Look in the yellow pages under Millwork, or ask your lumberyard about nearby milling services. When you take material in, make sure there are no screws or nails that would damage the machines.

G. KARL BISCHOFF

Wine rack tucks under cupboard

Using two boards like a sling, Don Hogue of Seattle placed his home-built wine rack under a cupboard. He cut a pair of redwood 1 by 6's with a saber saw to the shape you see below, then mounted them by drilling through the cupboard bottom and setting screws from inside.

This rack holds eight bottles; it could be shortened or lengthened to fit other cupboards. Mr. Hogue checked the temperature near this north wall for a month; it was consistently 5° to 6° cooler than the rest of the kitchen.

DANIEL HUNTSMAN

Creative demolition: just add water

A San Anselmo, California, couple planned to build their new house on the foundations of one that had burned. But much of the old house still stood—an unstable, dangerous, burnt-out shell. Conventional demolition would have cost nearly $10,000.

Daniel Huntsman, the couple's San Francisco architect, came up with an alternative: "We offered the ruin to the San Anselmo Fire Department for training if they would burn it the rest of the way to the ground. They were delighted to have a real fire situation to train their recruits."

After the owners got a go-ahead from their insurance company, the fire department reduced the structure to a knee-deep pile of ashes that will cost about $2,500 to have removed.

DON NORMARK

Deck dining from Bremerton via Tokyo

Put a table and enough chairs to seat six or eight people on this 10- by 10-foot deck and it would look out of proportion if not downright crowded. So owners Gary and Evelyn Ang of Bremerton, Washington, adapted an idea from the Japanese, building a long, low table where guests sit at floor level with their legs dangling below.

Rising above a 3- by 5-foot opening, the table stands 18 inches above the deck, supported by a framework of 2 by 4's. Cedar 2 by 6's matching the decking form the tabletop, and vinyl-covered cushions provide soft sitting.

he return of the sleeping porch

ımmer nights in many traditional ɔuses were spent outside on the sleep-g porch. Here, two were incorporated ıto the new house Seattle architects anatsey-Weinstein designed for Bill and Iary Pedersen on Hood Canal, Wash-ıgton. Off the master bedroom, the orches are oriented so that one gets ıorning sun, the other afternoon. For ıost of the day, light filters through the orches down a two-story well to the liv-ıg room.

Energy-saving stained-glass sandwich

Large stained-glass windows can provide an exciting accent that fills a house with color and light. But with just over 100 square feet of glazing on their entry wall, Diane and Arthur Kallman of Santa Cruz, California, faced a substantial heat loss from their six new windows.

To preserve the windows' beauty without boosting their energy bill, they had each of their panels sandwiched between ¼-inch plate glass. Aluminum channel holds the glass, and a desiccant (a granular silica gel placed between the panels) helps capture any trapped moisture.

The big windows (four measure 2½ by 6 feet; the top two are 2½ by 8 feet) slipped into the existing openings formerly filled with amber glass. The effect is especially vivid after dark, as the photograph shows.

DARROW M. WATT

Hugging pool edge *and wrapping around existing plants, low deck launches a four-youngster splashdown*

From house to pool, big deck over hodgepodgy paving

ROB LOCKER

Framework *of redwood joists across old paving is supported by 4-inch-wide steel L-brackets (about ⅛ inch thick) anchored to concrete with J-bolts and to wood with ⅜-inch carriage bolts*

A low-level deck between house and pool unified this back yard in Lafayette, California. What was previously a hodgepodge of paved surfaces (concrete slab patio and pool deck with a lower asphalt walk in between and an earth border along the house) is now a broad, flat area for outdoor entertaining and display of container plants.

In order to build the deck directly over the different surfaces—low enough to fit under exterior doors, yet high enough for air circulation below—builder Mike Milner used a support system of galvanized steel L-brackets. At 4-foot intervals, brackets were either bolted into predrilled holes in the existing concrete or anchored with J-bolts set into semidry concrete poured in mounds.

Neighboring brackets face in opposite directions for maximum strength. To compensate for the uneven terrain, L-brackets were special-ordered in various heights from a sheet metal works.

Decking—of redwood 2 by 6's—was finished with an oil sealant. □

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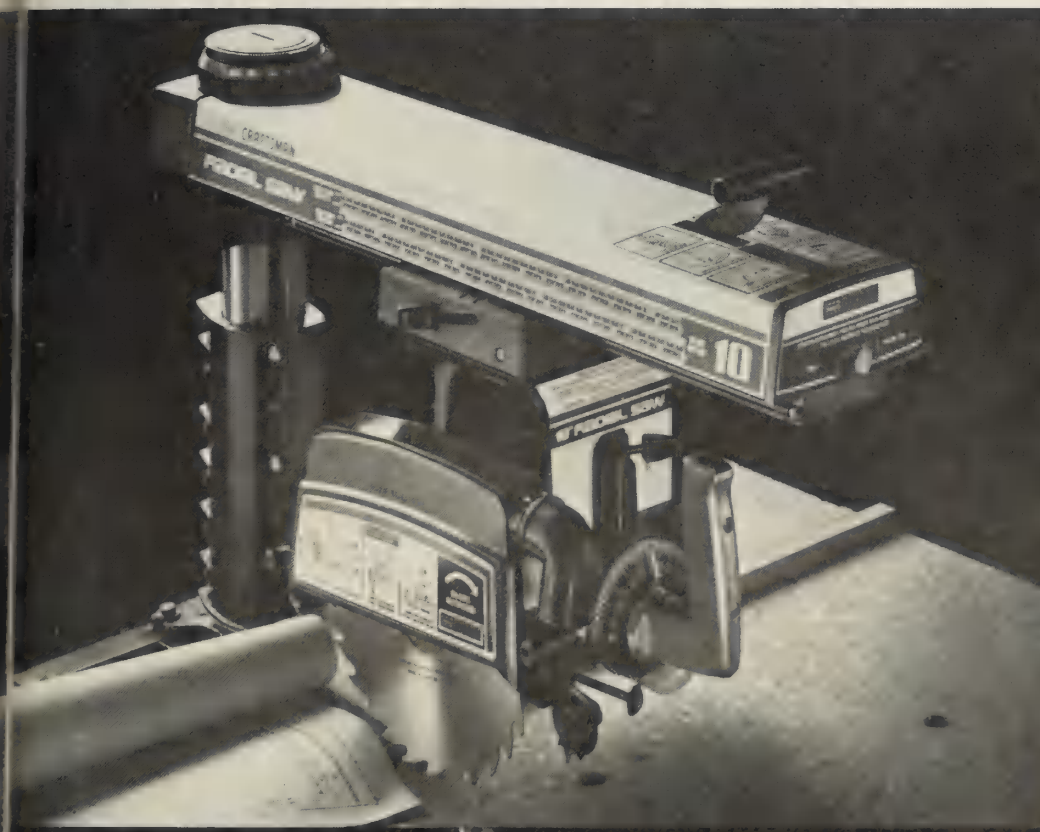

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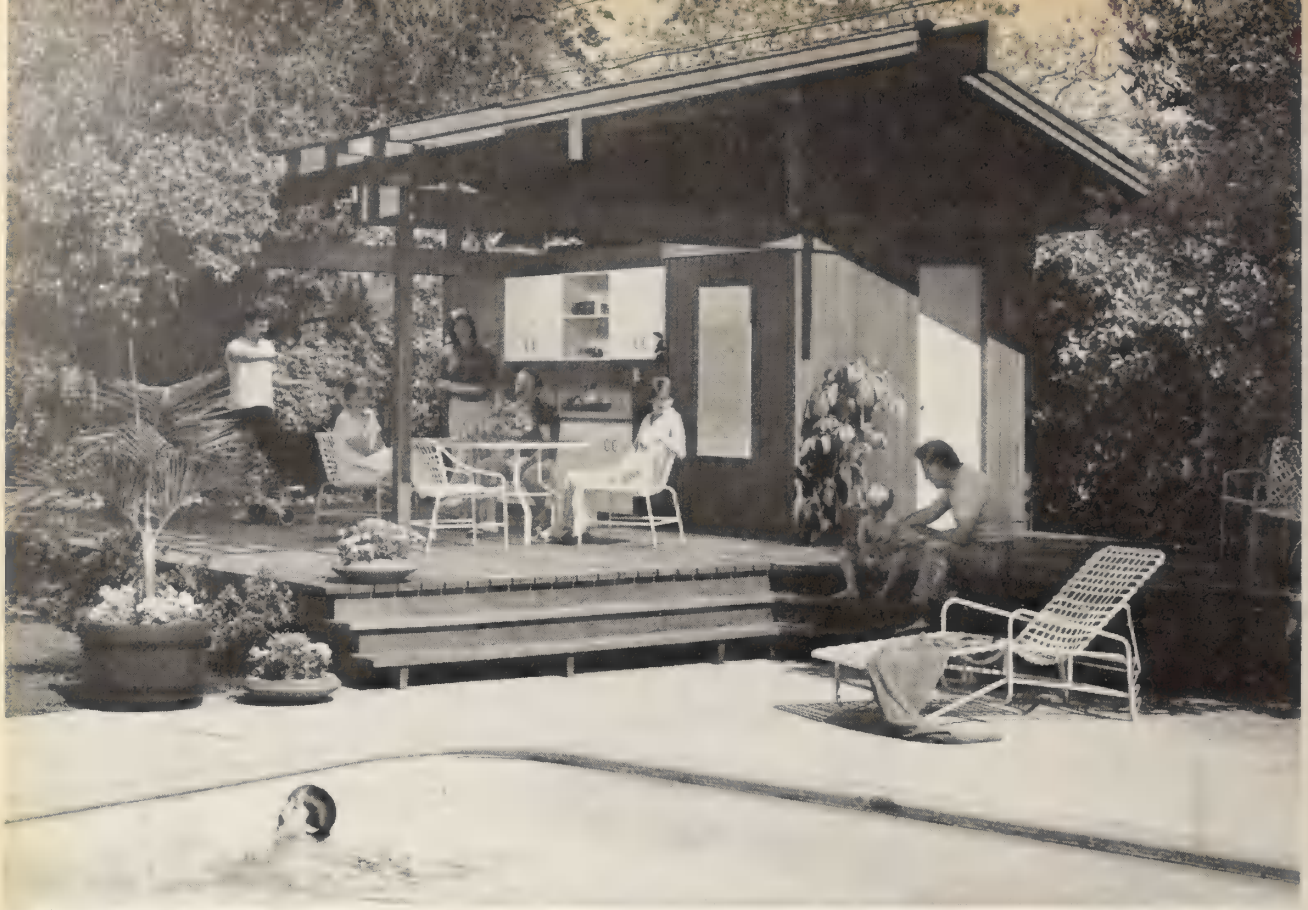

GLENN CHRISTIANSEN

Party pavilion *with stove, refrigerator, and storage is just a few steps up from water's edge; wraparound deck extends out over pool's concrete apron. Swimmers' changing room occupies one end of the pavilion (it's behind the white door)*

What did the old pool need, get? A kitchen-lounge at poolside

Efficiency kitchen *is the hub of pavilion. Deck and walls are redwood*

Beckoned by warm Southern California weather to entertain outside almost year-round, the owners of this Arcadia garden sought to update the 20-year-old pool area.

Salinas, California, architect Thomas R. Lukes designed a poolside pavilion with surrounding decks. Built into the poolhouse's open wall are a sink, refrigerator, shelves, and storage cabinets. With a portable barbecue on hand, the owners have a functional outdoor kitchen on their dining deck.

First, Lukes tore down an old garden shed, which stood to one side of the pool apron. He recycled the shed's concrete slab as the foundation for a new structure with garden equipment storage at one end, a changing room at the other, and a single-wall open kitchen in between. A framework of paired 2-by-10 beams bolted to 4-by-4 posts supports walls of ⅝-inch redwood plywood grooved to look like planking.

Sheltering the pavilion is a pitched roof that dips back from the 4- by 16-inch ridge beam to cover the rooms, and projects in front over the dining deck. Spanning the front and rear posts are two 4 by 12's attached with T plates; 2-by-8 rafters (2 feet on center) tie the three beams together. On top are slightly spaced 1 by 4's to which roof shingles, visible from beneath, are nailed. The garden storage area has a drywall ceiling to keep out animals.

Linking pool apron, pavilion, and a concrete patio is a deck of redwood 2 by 6's on 2-by-8 joists, supported by 4-by-6 posts on concrete piers. It was left natural and sealed. □

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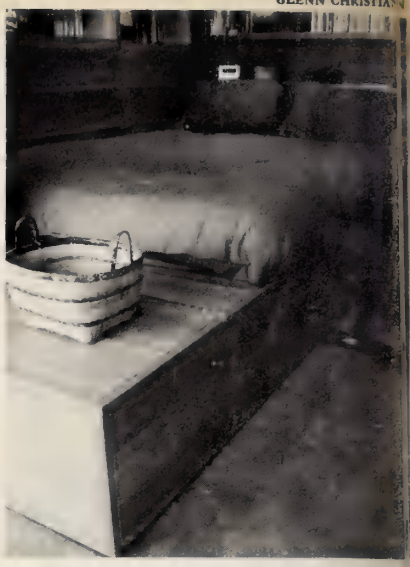
GLENN CHRISTIAN



Storage aplenty *was designed into this bed. Panel at foot swings up; deep drawers under mattress pull out*

Beds with their own built-in storage

Lazy bed makers or anyone needing extra storage space for blankets and bed linen can appreciate these two built-ins.

Portland architect Alan Beard extended the frame of his built-in bed to create the generous storage space you see above. Running the width of the bed, the lid swings up on a piano hinge for access to the 18-inch-deep, 2½- by [illegible] foot space.

Below, Mark Luty of Salt Lake City can hide a comforter in the box in the head of his bed. Only a portion of the lid swings up, leaving the remainder a stationary platform for house plants and a reading light.

DON NORMAN

Out comes the quilt *from the foot-deep space in this headboard*

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RMAN A. PLATE

verhangs *that shield clerestories from high summer sun and small shaded windows* *a heat-deflecting white masonry wall all help keep house cool*

Whole-house" fan *mounted behind filters inside a shaded north-side opening* *vashes house with cool evening air through tall register on inside wall*

DAVID STUBBS

Grommeted canvas sails *shade south-facing windows from hot east and west sun. They're easily removed to admit the low winter sun*

NSTEAD OF AIR CONDITIONING:

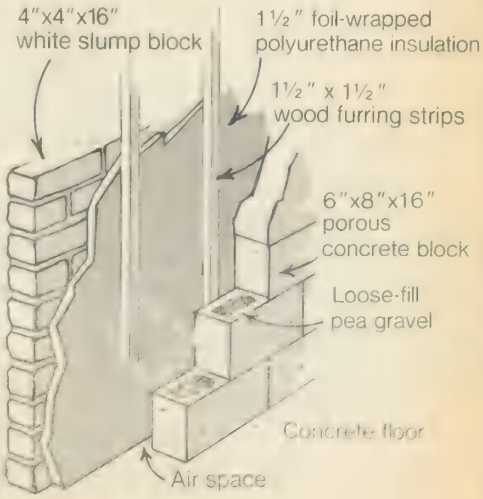
Roof crowns with sails, reflecting wall, a fan

Clerestory crowns on three new rooms, a new heavily insulated, sun-reflecting exterior wall, and a ¾-horsepower fan have replaced 4 tons of air conditioning in Peter and Bridget Janopaul's home in Modesto, California. Designed to add living space without creating new energy demands, this passive solar cooling and heating system has chopped their summer electricity bills from $200 to $40 per month.

The former 12- by 60-foot notch in their L-shaped house was converted to three new rooms. The old long wall had west-facing windows that flooded the house with hot afternoon sun; now open down to the floor, they are archways between old and new. Each new room was topped with a clerestory window that brings daylight to the interior and opens at night to vent summer heat.

The porous "popcorn" aggregate concrete blocks used for the inside wall allow it to breathe. They can be special-ordered in quantity from concrete block manufacturers at about the same price as standard blocks.

On summer nights, a whole-house fan washes the house with cool outside air. Other small fans push cool air into the air space in the wall to wash out the day's build-up of heat. Excess warm air escapes through open clerestories. □



New wall, *13 inches thick, has insulating layers with air spaces*

Sunset's Kitchen Cabinet®

In the heat of August, cooks are on the lookout for minimum-preparation meals that mean less time in the kitchen and that also take advantage of summer's bountiful crops.

Our first recipe, a salad of seasonal fruits, is ideal for a cool-of-the-day patio brunch; if you like, serve it with the cinnamon-crusted crescent rolls. Tender, young garden zucchini are the centers of our savory sausage logs. For a refreshing conclusion to a com-

Fresh summer fruits and crisp bacon make up this colorful platter salad

Summer Fruit-and-Bacon Salad

Choose cantaloupe, honeydew, crenshaw, or casaba melon for this brunch or luncheon salad.

- Ginger-orange nut dressing (recipe follows)
- 1 large or 2 medium-size ripe melons, chilled
- Romaine lettuce leaves
- 8 fresh plums (halved) or 16 whole, pitted prunes
- 1 basket strawberries, sliced
- 4 large oranges, peeled and sectioned
- 16 bacon slices, cooked until crisp

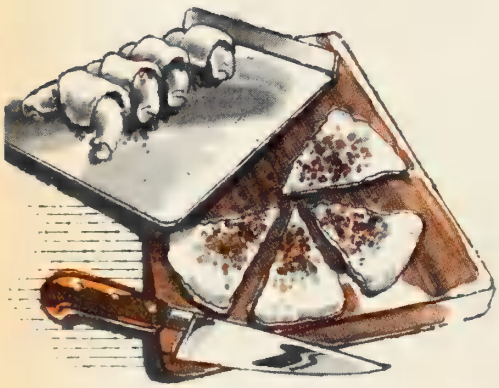
Prepare dressing; if made ahead, cover and chill as long as 2 days.

Cut melon in half and scoop out seeds; cut into thin wedges and peel.

Line a large serving platter or individual salad plates with lettuce leaves. Arrange melon crescents, plums, strawberries, orange sections, and bacon attractively on top.

Pass dressing at the table to spoon over individual servings. Serves about 8.—*R. C., Albany, Calif.*

Ginger-orange nut dressing. Combine 1 cup mayonnaise or unflavored yogurt and ¼ cup orange juice. Add 1 tablespoon *each* grated orange peel and sugar, 1 teaspoon minced fresh ginger, and ½ cup chopped toasted almonds.



Sprinkled with cinnamon and nuts, pastry wedges roll up into crescents

Cinnamon-Nut Crescents

These tempting sweet rolls have a flaky pastry texture.

- 1 package active dry yeast
- ¾ cup sugar
- ¼ cup warm (110°) water
- 1 teaspoon ground cinnamon
- 1 cup chopped nuts
- 1 cup (½ lb.) butter or margarine
- 2 cups all-purpose flour
- 2 eggs, separated
- Glaze (recipe follows)

Dissolve yeast and 1 teaspoon of the sugar in water. Combine remaining sugar, cinnamon, and nuts; set aside.

In a bowl, cut butter into flour to form even crumbs. Add egg yolks and yeast mixture; beat to form a smooth ball, 3 to 5 minutes.

Divide dough into thirds and roll each on a floured board into a 12-inch circle. Brush with egg whites (lightly beaten) and top with ⅓ of the nut mixture; cut into 8 wedges. Roll toward points and set, 2 inches apart, on greased baking sheets. Cover and let rise in a warm place for 20 minutes or until puffy. Bake in a 350° oven for 15 to 20 minutes or until golden. Brush glaze over warm rolls. Makes 24.—*L. P., Durango, Colo.*

Glaze. Combine ½ cup unsifted powdered sugar and 2 tablespoons milk.

Spoon cottage cheese over ground beef; top with noodles and sauce

Layered Skillet Casserole

You can also cook this lasagna-like dish in an electric skillet.

- 1 pound lean ground beef
- 1 medium-size onion, chopped
- 1 can (about 16 oz.) marinara sauce
- 2 cloves garlic, minced or pressed
- 1 tablespoon dry basil
- 1 teaspoon *each* oregano leaves and salt
- 1¼ cups water
- 1 pint small curd cottage cheese
- 3 cups (about 6 oz.) medium-wide egg noodles
- 2 cups (½ lb.) shredded mozzarella cheese

Crumble beef into a 3- to 4-quart frying pan or Dutch oven. Add onion and cook, stirring, over medium heat until meat browns; drain off fat.

Stir together the sauce, garlic, basil, oregano, salt, and water and spoon about half over meat mixture. Spoon cottage cheese over; then top evenly with the uncooked noodles. Spoon over remaining sauce.

Cover and bring to a boil, then reduce heat and simmer for 30 to 40 minutes or until noodles are tender; remove from heat.

Sprinkle cheese evenly over top; replace cover and let stand for 10 minutes to melt cheese. Serves about 6.—*T. E., Costa Mesa, Calif.*

y dinner, there's a frozen dessert h features fresh peaches.

T share your original recipes with ers, send them to *Sunset Maga-z* , Menlo Park, Calif. 94025. We p $25 for each published recipe.

Fruit-and-bacon salad for brunch, zucchini-stuffed sausage, fresh peach cheesecake

2 cchini-stuffed Sausage Logs

ide each of these golden meat logs k chunk of bright, fresh zucchini.

- 1 small (about 6 inches) zucchini
- 2 pounds bulk pork sausage
- 1 medium-size onion, chopped
- 2 cloves garlic, minced or pressed
- cup soft bread crumbs
- 2 eggs
- cup *each* finely chopped parsley and grated Parmesan cheese
- teaspoon oregano leaves
- teaspoon *each* pepper, ground cumin, and salt

it ends off zucchini and cut each in lf crosswise to make 2½-inch ngths. Cook, covered, in a vegetable eamer just until tender-crisp, 5 to 7 minutes. Set aside to cool.

Crumble sausage into a bowl and mix in the onion, garlic, bread crumbs, and eggs (slightly beaten). Sprinkle in the parsley, grated cheese, oregano, pepper, cumin, and salt, and mix well to blend thoroughly.

Divide mixture into eighths and press each portion evenly around a piece of zucchini, snugly sealing zucchini. Arrange on an ungreased, rimmed pan; if made ahead, cover and refrigerate. Bake, uncovered, in a 375° oven for 35 to 40 minutes (45 minutes if chilled) or until juices run clear. Makes 8.—*E. S., Phoenix.*

Shape meat around chunks of cooked zucchini to make these sausage logs

reamy Tuna Appetizer Spread

rround with a selection of fresh egetables or crisp crackers.

- 1 envelope unflavored gelatin
- 1 can (10½ oz.) condensed cream of celery or mushroom soup
- 1 small package (3 oz.) cream cheese
- 1 can (7 oz.) tuna, drained
- 1 carrot, shredded
- 1 stalk celery, chopped
- ¼ cup *each* chopped parsley and green onion
- 3 tablespoons lemon juice
- Liquid hot pepper seasoning or pepper

n a 2- to 3-quart pan, stir gelatin into soup. Cook, stirring, over medium-high heat just until boiling; add cream cheese and stir until melted. Remove from heat and cool slightly.

Flake tuna and add to soup mixture along with carrot, celery, parsley, green onion, and lemon juice; stir. Add hot pepper seasoning or pepper to taste. Spoon into an ungreased 1-quart mold and chill for at least 6 hours or overnight.

To unmold, hold pan in warm water for 30 seconds, then run a knife around edge to loosen. Invert a serving dish onto mold and turn over; shake firmly. Serves 8 to 10.—*A. P., San Jose, Calif.*

Creamy party spread combines tuna with crunchy bits of vegetables

Frozen Peach-Yogurt Cheesecake

You can prepare this creamy peach dessert several days ahead of time and store it in the freezer.

- Graham cracker crust (recipe follows)
- 1 package (8 oz.) cream cheese, at room temperature
- 1 carton (8 oz.) peach-flavored or unflavored yogurt
- ⅓ cup nonfat dry milk
- ½ cup honey or sugar
- 1½ cups coarsely chopped peaches
- Sliced peaches (for garnish)

Prepare crumb crust as directed.

In a blender container or food processor, whirl the cream cheese, yogurt, dry milk, and honey together until smooth. Add the chopped peaches and whirl just until blended. Pour into crust and freeze, uncovered, for about 4 hours or until solid; then cover lightly and freeze until ready to serve.

To serve, let stand at room temperature for 15 to 20 minutes to soften. Garnish with peach slices. Serves about 8.—*T. A., Almont, Colo.*

Graham cracker crust. Combine 1½ cups crushed graham cracker crumbs, 3 tablespoons sugar, and 1 teaspoon ground cinnamon; drizzle with ⅓ cup melted butter or margarine and stir until well blended. Press into an ungreased 9-inch pie pan.

Pinwheel of fresh peach slices tops off frozen peach-yogurt cheesecake

DARROW M. WATT

Antipasto tuna salad *fills hollowed-out sourdough loaf. Top with bread lid, then wrap and chill*

Neatly transportable *to a picnic site, salad-filled loaves slice into large pieces. Each recipe makes enough for about 6 servings*

Picnic salad arrives in a bread bowl

Four choices of salad . . . in a round loaf, long loaf, sandwich roll, or baguette

Other combinations *to try: avocado-shrimp salad in a round loaf, chili-chicken in a sandwich roll, sesame-ham in a skinny baguette*

Use a fork *to dig out the filling. Tear off pieces of the bread lid to eat alongside*

Pack a salad in a bread bowl? It's a novel presentation that has many merits. The edible bowl is a convenient way to transport a salad, whether you are going to the park or only as far as your patio table. Along the way, the bread picks up flavor from the salad dressing.

The bread bowl begins with sourdough loaves or rolls. You cut off the top to form the lid, then take out the soft inside to use for croutons or bread crumbs. You can use almost any size of loaf, from large round loaves to small individual rolls.

We give a choice of four different salad fillings—antipasto tuna, sesame ham, avocado-shrimp, and chili-chicken. If you need a head start, you can prepare salad ingredients (except for the avocado) and dressings separately the night before. The next day, mix them together and fill the bread bowls up to 4 hours in advance.

When you're ready to serve, cut the loaves into serving-size pieces; serve rolls whole. The baguettes and rolls are also small enough to be eaten out of hand as sandwiches, if you wish.

Prepare the salad of your choice (see four suggestions at right) before cutting the bread.

Making the bread bowls. You'll need 2 oblong sourdough loaves (1 lb. *each*), 1 round sourdough loaf (24 oz.), 3 sourdough baguettes (8 oz. *each*), or 6 unsliced sourdough sandwich rolls.

Slice off the top portion (½ to ¾ inch down) of the bread to form a lid. Pull out center bread to form a bowl with about ⅜-inch-thick walls. Reserve soft bread for another use.

Adding the salad mixture. Spoon salad mixture into bread bowl. Drizzle reserved salad dressing over cut side of lid and place on top of salad. Wrap well and chill up to 4 hours before serving. To serve, cut long loaves into serving-size lengths and round loaves into wedges. Makes 6 servings.

Antipasto Tuna Salad

Stir together ½ cup olive oil or salad oil and ¼ cup wine vinegar; 2 cloves garlic, minced or pressed; ¼ cup chopped parsley; ½ teaspoon *each* salt and oregano leaves; and ⅛ teaspoon pepper.

Combine 1 can (12 oz.) tuna, drained; 1 can (2¼ oz.) sliced olives, drained; 1 jar (6 oz.) marinated artichoke hearts, including marinade; 1 cup cooked green beans, cut into 2-inch lengths; 1 large red or green bell pepper, diced; ¼ pound mushrooms, thinly sliced; and 2 tablespoons capers. Reserve 1 to 2 tablespoons of dressing for bread lid; mix rest with tuna mixture.

Sesame-Ham Salad

In a frying pan, combine 6 tablespoons salad oil and 2 tablespoons sesame seed. Cook over medium-low heat until seeds are golden, 2 to 4 minutes. Cool. Stir in 1 teaspoon ground ginger; 3 tablespoons wine vinegar; 1½ tablespoons soy sauce; 1 teaspoon sugar; 1 clove garlic, pressed or minced; and ⅓ cup sliced green onion.

Combine ½ pound sliced cooked ham, cut into julienne strips; 1 can (about 8 oz.) water chestnuts, thinly sliced; ¼ pound Chinese pea pods, cut into 1-inch lengths; 1 cup sliced celery; and ⅓ pound thinly sliced mushrooms. Reserve 1 to 2 tablespoons dressing for bread lid; mix rest with ham mixture.

Avocado-Shrimp Salad

Stir together ⅔ cup salad oil, 2 tablespoons wine vinegar, 3 tablespoons lemon juice, 1½ tablespoons Dijon mustard, ½ teaspoon garlic salt, ¼ teaspoon sugar, ⅛ teaspoon pepper, and ½ cup thinly sliced green onion.

Combine ⅓ pound small cooked shrimp; ⅓ pound Swiss cheese, cut into julienne strips (about 1½ cups); 1 cup thinly sliced celery; 1¼ cups frozen peas, thawed; and 1 ripe avocado, peeled, pitted, and cut into bite-size pieces. Reserve 1 to 2 tablespoons dressing for bread lid; mix rest with shrimp mixture.

Chili-Chicken Salad

Stir together ½ cup salad oil, ¼ cup wine vinegar, 1 teaspoon chili powder, ½ teaspoon garlic salt, ¼ teaspoon ground cumin, dash of cayenne, and ½ cup chopped fresh coriander (cilantro).

Combine 1 can (12 oz.) whole kernel corn with sweet peppers, drained; ¾ cup sliced radishes; 1 can (4 oz.) diced green chilies, drained; ¼ pound jack cheese, cut into julienne strips (about 1 cup); 2 carrots, shredded; ¼ cup thinly sliced green onion; and 1½ cups shredded cold cooked chicken. Reserve 1 to 2 tablespoons dressing for bread lid; mix rest with chicken mixture. □

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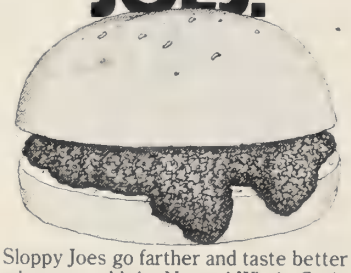
NEAT IDEA FOR SLOPPY JOES.



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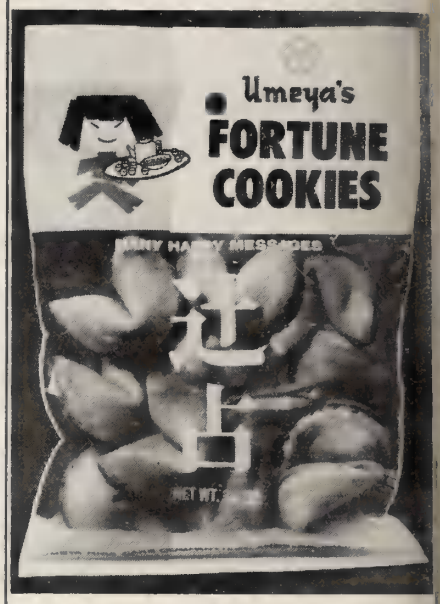

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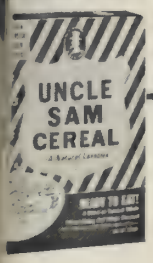

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DARROW M. WATT

Vegetable purée *cooks into thick chili sauce, ready for canning*

Your own chili sauce . . . mild or hot

Mild or wild—these two spicy chili sauce recipes let you choose your own level of heat. Each takes advantage of the fresh chili peppers now in our markets and in home gardens.

In the first sauce, mild long green Anaheim chilies give a suggestion of hotness to a tomato-onion mixture seasoned with cinnamon, ginger, and cloves. Our second recipe lends itself to more fiery adaptations; you can use mild chilies or the shorter, hotter Fresno or jalapeño peppers (by themselves or in combination) if you favor a peppery-hot sauce.

Mild Chili Sauce

- 7 pounds (about 14 large) tomatoes, quartered
- 4 long green chili peppers, chopped
- 2 large onions, quartered
- 2 cloves garlic
- 1½ cups sugar
- 2 tablespoons salt
- 3 cups cider vinegar
- 1½ teaspoons *each* ground cinnamon and cloves
- 1 teaspoon ground ginger

In a blender or food processor, whirl tomatoes, chilies, onion, and garlic (a portion at a time) until smooth. Turn into an 8-quart kettle and stir in the sugar, salt, vinegar, cinnamon, cloves, and ginger. Simmer uncovered, over medium-high heat, until thickened and reduced to 2 quarts, about 2 hours; stir frequently. Reduce heat and stir more often to prevent sticking as sauce thickens. Remove from heat.

To can, ladle the hot sauce into clean, hot, pint canning jars to within ¼ inch of the rim. Run a rubber spatula or blunt knife down in between food and jar to release air bubbles. Wipe rims clean with a damp cloth. Put on scalded lids and screw on ring bands.

Process in boiling water bath for 15 minutes. With tongs, lift out jars and cool completely on a dry cloth in a draft-free area. When cool, test for a good seal; store in a cool, dry place. Makes 4 pints.—*G. K., Pine Grove, Calif.*

Tangy Chili Sauce

- 1½ or 2 cups chopped fresh red or green chili peppers (discard seeds if desired)
- 4 pounds (about 8 large) tomatoes, quartered
- 1 large onion, quartered
- 4 cloves garlic
- 4 cups cider vinegar
- 1 cup sugar
- 1 tablespoon salt
- 2 tablespoons mixed pickling spice

In a blender or food processor, whirl the chilies, tomatoes, onion, and garlic (a portion at a time) until smooth. Turn into a 5-quart kettle and stir in 2 cups of the vinegar, the sugar, salt, and pickling spice (tie spice in a piece of cheesecloth or place in a tea ball). Simmer uncovered, over medium heat, until mixture is reduced by half, about 1½ hours; stir frequently.

Add the remaining 2 cups vinegar and simmer, stirring often, until sauce is reduced to 1 quart, about 30 to 45 minutes longer. Remove from heat; discard pickling spice.

To can, ladle hot sauce into clean, hot, pint canning jars to within ¼ inch of the rim. Run a rubber spatula or blunt knife down in between food and jar to release air bubbles. Wipe rims clean with a damp cloth. Put on scalded lids and screw on ring bands.

Process in a boiling water bath for 15 minutes. With tongs, lift out jars and cool completely on a dry cloth in a draft-free area. When cool, test for a good seal before storing in a cool, dry place. Makes 2 pints. □

1 • *Moisten edge of dough wrapper; fold over filling and pinch edges together to seal; set upright and cover with plastic wrap*

2 • *Pour water over potstickers after they've browned on one side; cover and steam to finish cooking*

DARROW M. WA

3 • *Dip each morsel in soy-vinegar mixture; make it as hot as you like with chili oil*

Quicker potstickers with Japanese wrappers

It used to be a time-consuming chore to make potstickers, the Oriental dim sum delicacies. But now that wrappers are more readily available, preparation time has been cut to about 1½ hours.

Labeled *gyoza* (gee-oh-za) their Japanese name, the wrappers are circles of dough resembling won ton skins. Look for them in the produce, refrigerated, or freezer section of grocery stores and Oriental markets. Unopened, the wrappers keep in the refrigerator up to three weeks. Once opened, they should be used within a day or two. You can substitute won ton skins in these recipes.

The filled dumplings keep well in the freezer and can be cooked quickly without thawing. Serve them with a green salad for a light lunch or supper; for a more substantial meal, add fried rice and a stir-fried vegetable dish.

Prepare one of these fillings. Each is enough for 4 dozen dumplings, about the number of wrappers you'll get in a 10-ounce package. If you use a 14-ounce package, double the recipe.

Pork and Shrimp Potstickers. In a bowl, combine ½ pound *each* ground pork and small cooked shrimp, chopped; 1 can (8 ounces) water chestnuts, chopped; ½ cup chopped green onion; 3 tablespoons *each* soy sauce and sherry or chicken broth; 1 tablespoon cornstarch; 1 teaspoon minced fresh ginger; and ½ teaspoon sugar. Mix well.

Sesame Chicken Potstickers. Skin, bone, and finely chop 2 chicken breasts (about 1½ lbs.). In a bowl, combine the chicken, 4 tablespoons sesame oil, 1 cup finely chopped celery, ½ cup chopped green onion, 3 tablespoons sherry or chicken broth, 2 tablespoons cornstarch, and 1 teaspoon *each* sugar and salt. Mix well.

Beef with Oyster Sauce Potstickers. In a bowl, combine ¾ pound ground beef; 5 cups, lightly packed, finely chopped Chinese (napa) cabbage (about ½ of a small head); ⅓ cup chopped green onion; ¼ cup oyster sauce or soy sauce; 1 clove garlic, minced; and 1 teaspoon minced fresh ginger. Mix well.

To assemble, set out 6 to 8 wrappers at a time; keep others tightly covered. Place 2 teaspoons filling in the center of each. Moisten edge of dough with water, fold in half over filling, and pinch edges together to seal. Set upright on a bakin sheet; keep covered. If made ahead freeze in a single layer, then transfer t heavy plastic bags, seal, and return t freezer for up to three months.

To cook potstickers. For each 2 dozen dumplings, heat 1 tablespoon oil in a 10 to 11-inch frying pan over medium heat Set in potstickers (don't thaw if frozen) seam side up. Cook, uncovered, unti bottoms are a deep golden brown, abou 5 to 7 minutes. Pour in ¼ cup water immediately reduce heat to low and steam 10 minutes for pork and shrimp 6 minutes for chicken, and 8 minutes for beef. (Add 5 minutes if frozen.) Repeat with remaining potstickers.

To serve, lift dumplings out onto a warm serving platter with a wide spatula. Set cruets of white vinegar, soy sauce, and hot chili oil on the table and provide each guest with a small dish. Suggest they mix about 1 tablespoon vinegar with ¼ or ½ teaspoon soy sauce; add a dash (to taste) of hot chili oil or cayenne. (Look for chili oil in the Oriental food section of your grocery store or in an Oriental market.) Each panful makes 4 to 6 servings.

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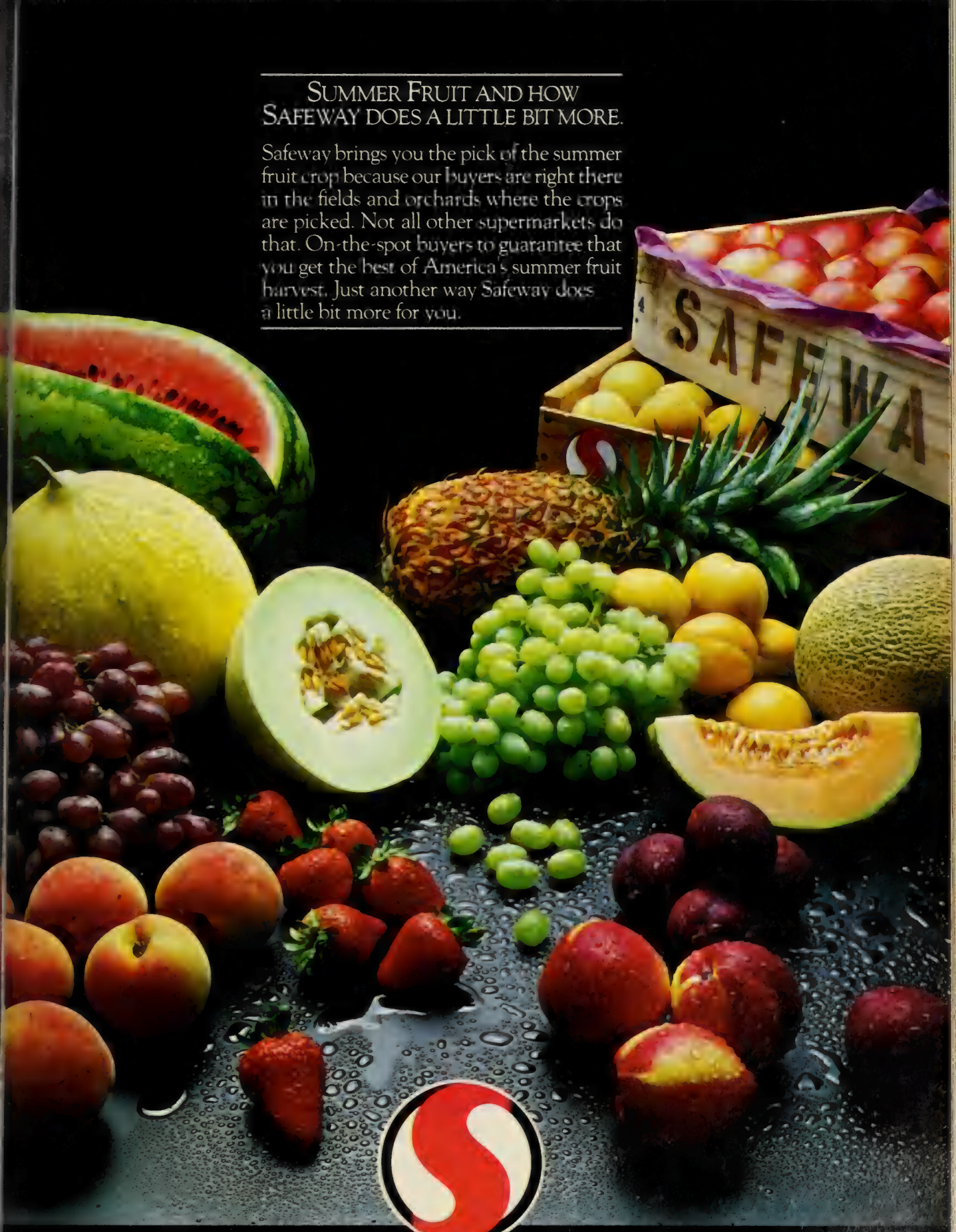

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Easy Homemade Chocolate Ice Cream

(Makes about 1½ quarts)

1 (14-ounce) can Eagle® Brand Sweetened Condensed Milk (NOT evaporated milk)

2/3 cup Hershey's Syrup

2 cups (1 pint) whipping cream, whipped

In large bowl, stir together sweetened condensed milk and syrup. Fold in whipped cream. Pour into aluminum foil-lined 9 x 5-inch loaf pan; cover. Freeze 6 hours or until firm. Scoop ice cream from pan or remove from pan, peel off foil and slice. Return leftovers to freezer.

Frozen Chocolate Pies: *Prepare ice cream as above. Pour into 2 chocolate flavored or butter flavored Ready-Crust® pie crusts. Freeze as directed. Garnish as desired.*

Nothing beats cool, creamy homemade ice cream on a hot summer's day. And with Eagle Brand Sweetened Condensed Milk you can make this old-fashioned treat an easy new way—without an ice cream maker! Add Hershey's Syrup for luscious, chocolatey richness. And, for a delicious, easy-to-prepare variation, pour your ice cream mixture into a chocolate flavored Ready-Crust pie crust. Just follow the simple recipe.

rved over hot tagliarini, *chunky sauce of eggplant, pepper, and tomatoes is spiked with anchovies, capers, and olives*

Your garden makes these pasta sauces light and fresh

'hen you team pasta with vegetables, ıstead of the traditional marinara sauce, ıe results are light, fresh, and delicious. iere are four ways to capitalize on this ıonth's harvest of vine-ripened produce.

'agliarini with Eggplant Sauce

- 6 large ripe tomatoes
- 1 large eggplant (about 1¼ lbs.)
- ¼ cup olive oil or salad oil
- 2 cloves garlic, pressed or minced
- 2 small red or green bell peppers, diced
- ¼ cup water
- 2 tablespoons capers
- 1 cup chopped fresh basil leaves or ¼ cup dry basil
- 5 to 8 anchovy fillets, chopped
- ¼ to ½ teaspoon crushed red pepper
- 1 can (16 oz.) pitted ripe olives, drained
- Salt
- ½ to 1¾ pounds fresh or 1 to 1¼ pounds dry tagliarini
- Boiling salted water

'eel, seed, and coarsely chop the tomaoes. Cut the eggplant into ½-inch cubes. In a 5-quart or larger kettle, heat oil over medium heat. Add garlic and eggplant; cook, stirring constantly, for 1 minute. Stir in peppers. Reduce heat to low and add water. Cover and cook until eggplant is tender, 6 to 8 minutes. Add capers, basil, anchovy, crushed red pepper, olives, and tomatoes. Boil, uncovered, until sauce thickens, 15 to 20 minutes. Salt to taste.

Meanwhile, cook tagliarini in boiling salted water according to package directions until barely tender. Drain well. Serve eggplant sauce over tagliarini. Makes 6 to 8 servings.

Fettuccine with Crunchy Vegetables

Chop 1 large onion and 1 small red or green bell pepper. Cut 1 large zucchini and 3 large ripe tomatoes into ½-inch cubes. Chop enough parsley and fresh basil to make ½ cup *each.* (Or substitute 2 tablespoons dry basil for fresh.)

In a wide frying pan over medium heat,

TURI SANDISON

Crunchy *diced vegetables and crisp bacon bits crown fresh fettuccine. Sprinkle grated parmesan on top*

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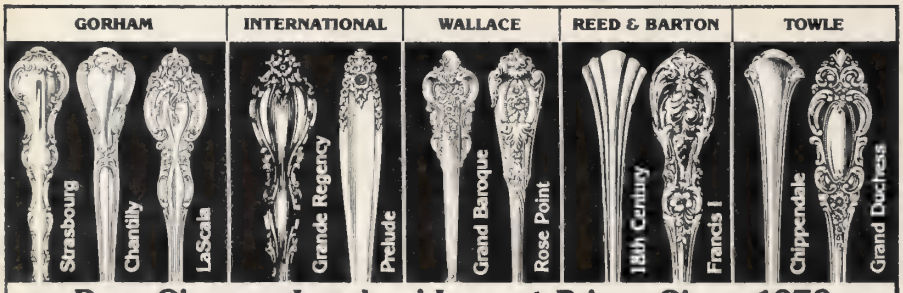

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cook 6 slices bacon (cut in ½-inc pieces) until crisp. Lift out bacon an remove all but 2 tablespoons of the fa from pan. To the pan, add 3 cloves ga lic, minced or pressed, and the onio cook until limp. Add the zucchini a peppers; stir over medium-high heat un tender-crisp, about 2 minutes. Add t matoes, basil, parsley, and 2 tablespoon olive oil or salad oil. Cook, stirring, un hot. Salt and pepper to taste.

Meanwhile, cook 10 to 12 ounces fres or 8 ounces dry fettuccine or spaghetti i boiling salted water according to pack age directions until barely tender. Drai well. Spoon sauce over hot noodle sprinkle with bacon, and mix gentl Pass grated Parmesan cheese. Makes servings.—*A. U., Sebastopol, Calif.*

Spaghetti with Minted Tomato Sauce

- ½ cup coarsely chopped walnuts
- ⅓ cup olive oil or salad oil
- 1 small onion, finely chopped
- 1 clove garlic, minced or pressed
- 2 large ripe tomatoes, peeled, seeded, and chopped
- ¼ cup dry white wine or water
- 4 teaspoons minced fresh basil or 1 teaspoon dry basil
- ¼ cup chopped fresh mint leaves or 1 tablespoon dry mint
- Salt and pepper
- 10 to 12 ounces fresh or dry spaghetti or fettuccine
- Boiling salted water

In a wide frying pan, cook walnuts ove medium-low heat, stirring occasionall until toasted, about 5 minutes. Remov from pan; set aside.

Add oil and onion to pan and cook ove medium heat until soft. Add garlic tomatoes, wine, basil, and mint. Boi gently, uncovered, stirring occasionally until thickened, 5 to 10 minutes. Ad salt and pepper to taste.

Meanwhile, cook noodles in boilin salted water according to package direc tions just until barely tender. Drain well Pour sauce over noodles, mix gently, an sprinkle with walnuts. Makes 4 servings

Linguine with Zucchini

Cook 10 to 12 ounces fresh or 8 ounces dry linguine in boiling salted water according to package directions just unti barely tender; drain well.

In a 12-inch frying pan, heat 3 tablespoons salad oil over high heat. When hot, add 6 cups shredded zucchini and 3 large cloves garlic, pressed or minced; stir-fry until tender-crisp, 3 to 4 minutes. Reduce heat to low. Add ¼ cup *each* chopped parsley and butter or margarine, and ½ cup half-and-half (light cream); cook until butter melts. Add the noodles, ½ cup grated Romano or Parmesan cheese, and 1½ cups shredded jack cheese. Toss lightly. Salt and pepper to taste. Serves 4.—*M.C., North Hollywood, Calif.*

And you thought Bisquick® only made pancakes.

Impossible Tuna Pie

- 1 can (6½ ounces) tuna, drained
- 1 cup shredded process sharp American cheese
- 1 package (3 ounces) cream cheese, cut up
- ¼ cup sliced green onions
- 1 jar (2 ounces) chopped pimiento, drained, if desired
- 2 cups milk
- 1 cup Bisquick® baking mix
- 4 eggs
- ¾ teaspoon salt
- Dash of nutmeg

Heat oven to 400°. Grease pie plate, 10x1½ inches. Mix tuna, cheeses, onions and pimiento in plate. Beat remaining ingredients 15 seconds in blender on high or 1 minute with hand beater. Pour into plate. Bake until knife inserted between center and edge comes out clean, 35 to 40 minutes. Cool 5 minutes. Serve with sliced tomatoes. 6 to 8 servings.

Impossible Seafood Pie: Substitute 1 package (6 ounces) frozen crabmeat or shrimp, thawed and drained, for the tuna.

High Altitude: Bake 45 to 50 minutes.

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DAVID STUBBS

Culinary initiation *for young campers: Mexicali Special, a meal-in-a-skillet*

Everyone lends a hand—that's part the fun of a family camping trip. Wh it comes to cooking, youngsters rea enjoy doing their share, and even ch dren as young as 7-year-old Cra shown here with his 10-year-old sist Jennifer, can help with camp meals.

A favorite family breakfast in camp French toast, made with thick slices Hawaiian sweet bread that have a filli of fruit preserves.

For lunch, the kids prepare beefy Me cali Special—then scoop it up with to tilla chips. Cleanup is a breeze.

To accompany a dinner of grilled fis hamburgers, or chicken, Jennifer pu together a colorful vegetable salad wh Craig concentrates on their easy desse —bundles of sliced apples, raisins, a honey, which bake on the grill duri dinner.

C & J's Mexicali Special

In a wide frying pan over medium-hig heat, brown 1 pound lean ground bee drain off fat. Mix in 1 can (15 oz.) refrie beans and 1½ teaspoons chili powde Drain and add 1 can (12 oz.) whol kernel corn with sweet peppers and can (2¼ oz.) sliced ripe olives; stir in can (8 oz.) tomato sauce. Heat, stirrin until bubbly. Add 1 cup shredded jac or Cheddar cheese and stir until chees melts. Stand tortilla chips around edg of pan; top with additional shredde cheese. Serve hot to scoop up onto chip to eat. Serves 4.

Hawaiian French Toast

Remove a 1-pound round loaf of Ha waiian sweet bread from foil pan. Cu bread into 2-inch-thick slices; cut en slices in half, middle slices into 3 piece With a small knife, cut a small slit i each piece, then gently enlarge with you finger (see photograph on page 129). Fi opening with about 1 teaspoon orang marmalade, strawberry preserves, o

Young camp cooks can pitch in . . . easy breakfast, lunch, and dinner

Scooped up *with tortilla chips, Mexicali Special tastes like a hit—especially in the opinion of the cook*

The fresher...the better!

And fresher dressings start with Best Foods®!

DIRECTIONS: Just mix Best Foods Real Mayonnaise with the ingredients listed below. Cover, chill ... and you've got about 1½ cups of creamy-delicious dressing. Try it tonight!

Pleasin' Cheese 'n Herb

- 1 cup BEST FOODS® Real Mayonnaise
- 1/2 cup chopped parsley
- 1/4 cup grated Parmesan cheese
- 2 Tbsp lemon juice
- 1 clove garlic, minced
- 1 tsp dried basil leaves

Crème de la French

- 1 cup BEST FOODS® Real Mayonnaise
- 2 Tbsp lemon juice
- 4 tsp sugar
- 1 Tbsp milk
- 1 tsp paprika
- 1/2 tsp dry mustard
- 1/4 tsp salt
- 1/8 tsp pepper

Dilly Cucumber

- 1 1/2 cups peeled, seeded, chopped cucumber
- 1 cup BEST FOODS® Real Mayonnaise
- 2 Tbsp finely chopped onion
- 1 Tbsp milk
- 1 Tbsp lemon juice
- 1/2 tsp dill weed (optional)
- 1/4 tsp salt

True Blue Cheese

- 1 cup BEST FOODS® Real Mayonnaise
- 4 oz blue cheese, crumbled
- 3 Tbsp milk
- 2 Tbsp lemon juice
- 1 Tbsp finely chopped onion
- 2 tsp sugar
- 1/4 tsp Worcestershire sauce
- 1/4 tsp dry mustard
- 1/4 tsp salt

Dreamy Italian

- 1 cup BEST FOODS® Real Mayonnaise
- 3 Tbsp milk
- 2 Tbsp cider vinegar
- 1 clove garlic, minced
- 1/2 tsp dried oregano leaves
- 1/2 tsp sugar
- 1/4 tsp salt
- 1/8 tsp pepper

Blushin' Russian

- 1 cup BEST FOODS® Real Mayonnaise
- 1/3 cup catsup or chili sauce
- 1/3 cup chopped pickles
- 2 tsp lemon juice
- 2 tsp sugar

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DAVID STUBBS

Craig squeezes *a drizzle of honey over his specialty: foil-baked apple rings, to cook over camp grill*

other favorite thick preserves.

In the foil bread pan (or a shallow bowl), lightly beat together 3 eggs, ¾ cup milk, and 1 tablespoon sugar. Also melt 1 tablespoon butter or margarine over medium heat in a wide frying pan. Quickly dip each side of bread into the beaten egg and place in frying pan (don't let bread sit in egg mixture, or it will get too soft). Cook, turning, until pieces are nicely browned on all sides. Sprinkle with powdered sugar. Serves 4 to 6.

Camper's Kaleidoscope Salad

You'll need 1 can (8 oz.) *each* julienne-cut carrots, kidney beans or garbanzos, and sliced pickled beets; 2 medium-size tomatoes; 1 medium-size zucchini or cucumber; and about ¼ cup pitted ripe olives (optional). You'll also need about ½ cup Italian dressing (homemade or purchased).

Drain carrots, beans, and beets. Also cut tomatoes into wedges and thinly slice zucchini. Arrange vegetables in separate piles on a rimmed serving plate. Garnish with olives, then pour dressing over all. Serves 4.

Honey-and-Raisin Baked Apples

For each serving, cut a 12-inch square of heavy foil. Peel and core 1 large Golden Delicious apple, then cut into ½-inch-thick rings; pile in the center of the foil. Top with 2 or 3 tablespoons raisins, a light sprinkling of ground cinnamon, and a squeeze of fresh orange juice. Drizzle with about 1 tablespoon honey. Bring foil corners up together and pinch foil to seal.

Place bundles on a grill 4 to 6 inches above low-glowing coals and cook until apples are tender, about 20 minutes. Eat out of foil or spoon into bowls. If desired, top servings with dollops of whipped dairy topping or sour cream. □

Variety *of vegetables —some fresh, some canned—make a colorful, quick salad to go with meat or fish*

DAVID STUBBS

Pockets *cut into slices of sweet bread get filled with fruit preserves. Then bread is dipped in egg batter and pan-fried*

English is dry, Chinese fiery, German rugged

Mustard reveals character. It is astounding that this innocuous member of the cabbage family, a mere weed in the spring fields, can show such range and profundity when one grinds and prepares its seeds.

Nowadays we meet with hot, sweet, Russian mustard; the fiery Chinese; the sophisticated Dijon; the rugged German, with its seeds still visible; the down-to-earth brown; the dry English. There are mustards with red pepper, mustards with herbs. Not so long ago, the main commercial mustard was the hot dog kind, brilliant with turmeric and fairly bland.

The *Chefs of the West* try to sift through schism and confusion down to the true, the root mustard. *Chef* Sidney Newell, a former Washingtonian now resident in Arizona, takes a historical approach: "After the American Revolution, John Paul Jones went to Russia in the service of the czar. He took a few Americans with him. I received the following recipe through one of their descendants." Here is the mustard.

Russian Mustard

- 3 tablespoons dry mustard
- ⅓ cup water
- ½ cup white vinegar
- ½ teaspoon salt
- 3 egg yolks
- 4 tablespoons butter or margarine

In a 1-quart pan, stir together the mustard and water to form a paste, then stir in the vinegar, salt, and egg yolks. Beat with a wire whip until well combined.

Cook, stirring, over medium-low heat for 3 to 5 minutes or until thickened. Add butter and stir until melted. Remove from heat; let cool. Pour into a jar, cover, and refrigerate until needed (up to 2 weeks). Makes 1⅓ cups.

Sidney W. Newell

Sun City West, Ariz.

Herbs and spices are a very personal affair. Anybody can knock your head off with a dose of cayenne, but on a subtler level there is little agreement about proper mixtures and quantities.

There are the regional schools. If it's dill, this must be Scandinavia, and one cannot imagine Italy without anise. Cumin identifies Mexico, while thyme and tarragon speak of France. Cinnamon may well be the American spice. One meets with it much less often out

Chefs of the West®

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"Tamale pie is cooking's nearest approach to the happy face"

of sight of Old Glory, but here it pops up in pie, twists through breakfast rolls, and leaps tingling from cinnamon candy red-hots. Ginger is ubiquitous, but China is its real home.

Kenneth Goldstein of Laramie, Wyoming, does something that may not win universal approval, but the *Chefs* are not out for easy victories. Take at least three tastes before you decide that his mating of ginger, tarragon, dill, and chili powder is too daring. Perhaps there is still hope for a world community.

Shrimp for the Daring

- 6 tablespoons butter or margarine
- ½ teaspoon salt
- 2 tablespoons lemon juice
- 1 pound medium-size shrimp (30 to 32 count), shelled, deveined, and butterflied
- ¼ cup brandy
- ½ teaspoon Worcestershire
- ¼ teaspoon *each* ground ginger, tarragon, dill seed, chili powder, and pepper
- ¼ teaspoon Dijon mustard
- ¼ pound mushrooms, sliced
- Hot cooked rice
- Chopped parsley

Melt about half the butter in a wide frying pan over medium heat; stir in salt and lemon juice. When bubbly, add shrimp and cook, stirring, for about 4 minutes or until the shrimp turn pink. Warm brandy, then carefully pour over surface and ignite. Stir gently until flames disappear. Lift out shrimp with a slotted spoon and set aside. To the pan add the remaining butter, Worcestershire, ginger, tarragon, dill, chili powder, pepper, and mustard. Stir until well combined. Add mushrooms and cook for 2 to 3 minutes, then return shrimp to pan and heat through.

To serve, spoon shrimp and sauce evenly over hot cooked rice and garnish with parsley. Makes 4 servings.

Laramie, Wyoming

It is unusual to apply the word "comfy" to something one can masticate, but by heaven, tamale pie is comfy. It is cooking's nearest approach to the happy face. Still, it can be manipulated in many ways, and Gary Korven gives us his most pleasant version.

San Diego Tamale Pie

- 1 teaspoon salt
- 1½ pounds lean ground beef
- 1 large onion, chopped
- 2 cloves garlic, minced or pressed
- ¼ teaspoon pepper
- 1 cup yellow cornmeal
- 1 can (12 oz.) whole-kernel corn, drained
- 2 cans (6 oz. *each*) tomato paste
- 1 can (10 oz.) enchilada sauce
- 1 can (4 oz.) diced green chilies, drained
- 1 tablespoon chili powder
- 1 can (about 6 oz.) pitted ripe olives, drained
- 1 cup milk
- 1½ cups (6 oz.) shredded Cheddar cheese

Sprinkle salt in a wide frying pan over medium heat; when hot, add beef and cook until browned and crumbly, then stir in onion and garlic and cook until onion is soft. Remove from heat and discard excess fat.

Stir in the pepper, cornmeal, corn, tomato paste, enchilada sauce, chilies, chili powder, olives, and milk. Pour into a greased shallow 3-quart casserole. Bake uncovered, in a 350° oven for 30 minutes. Sprinkle cheese evenly over top and continue to bake for 5 to 10 minutes longer or until cheese is bubbly. Makes 6 to 8 servings.

San Diego

A young man to whom we have been introduced likes occasionally to cook for his family. He does pretty well, too. His approach to a roast chicken keeps the breast meat moist and gives an interesting flavor. All you need is a chicken, some bacon, and ingredients for a basting sauce. The young man is Chris Westlund and long may he produce good flavors.

Chicken à la Westlund

- 3 to 3½ pound whole broiler-fryer chicken
- Salt, pepper, and garlic powder
- 4 slices bacon
- 1½ cups dry white wine
- 2 tablespoons butter or margarine, melted
- 1 tablespoon finely chopped parsley
- ½ teaspoon *each* thyme leaves, rubbed sage, and dry rosemary
- 2 teaspoons cornstarch blended with 2 teaspoons water
- Hot cooked rice

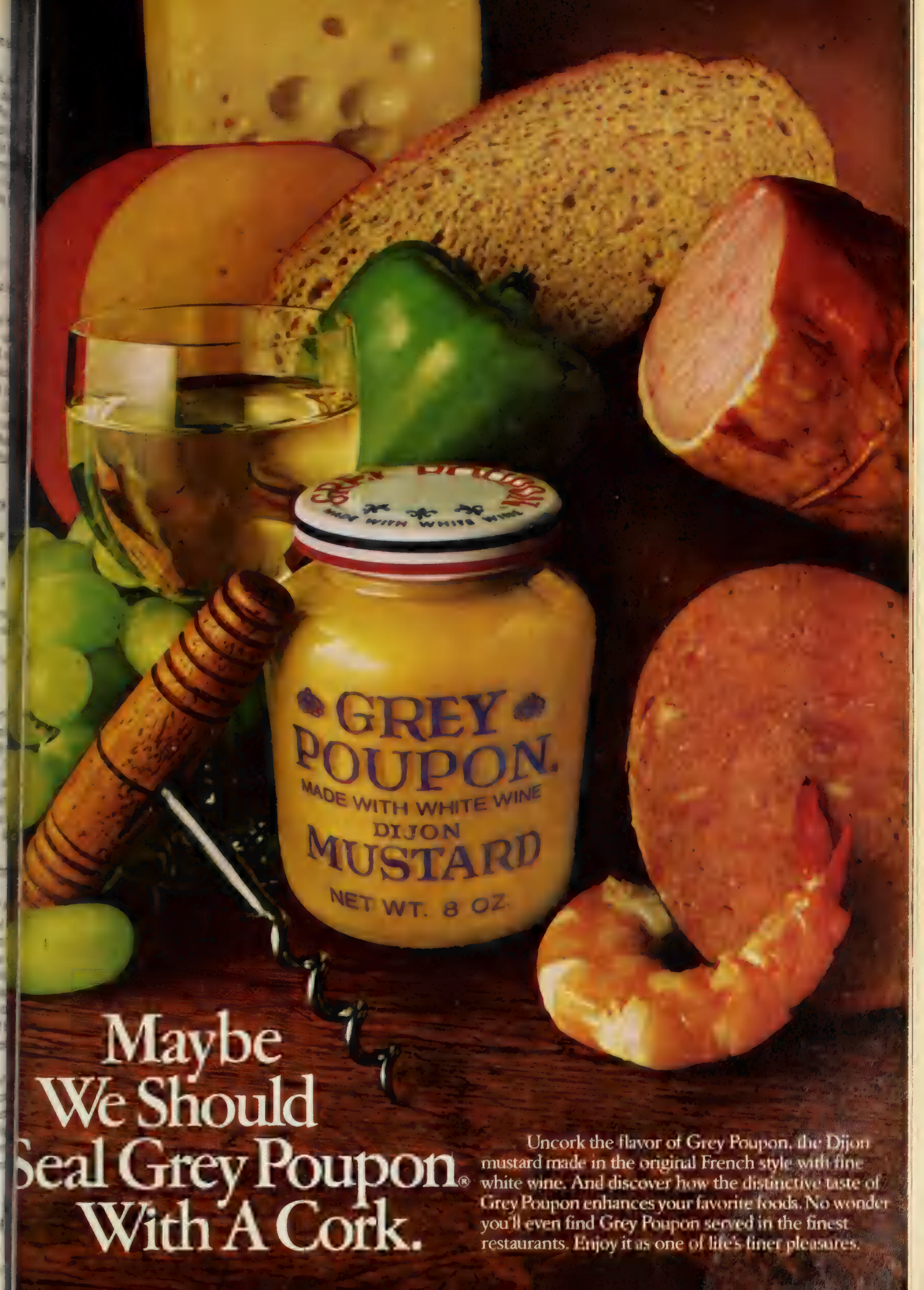
Remove giblets from chicken; reserve for other uses. Rinse chicken inside and out; pat dry. Sprinkle body cavity lightly with salt, pepper, and garlic powder. Fold neck skin over breast cavity and secure to back with wing tips bent akimbo. Place chicken, breast side up, on a rack in a roasting pan. Arrange bacon slices over top.

Combine wine, butter, parsley, thyme, sage, and rosemary.

Roast chicken, uncovered, in a 375° oven for 30 minutes; lift off bacon and set aside. Baste chicken with wine mixture. Continue roasting chicken for about 45 minutes longer or until meat near thigh bone is no longer pink when slashed. Baste generously with wine mixture about every 15 minutes; use all of the baste. Lay bacon back on rack beside chicken for last 5 minutes to reheat.

Lift chicken and bacon to a warm serving platter; keep warm. Skim and discard fat from pan drippings. Stir cornstarch mixture into drippings and cook, stirring, until bubbly and thickened. Serve chicken with hot cooked rice and pass sauce at the table. Makes 4 servings.

Richland, Wash.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DARROW M. WA

Lightly dust *buttered breadsticks with seasoned salt, then bake*

Handy appetizers.. chewy breadsticks

These chewy breadsticks are a breeze t make. You handroll the dough int sticks, let them rise, then flavor ther with onion, garlic, or seasoned salt.

For a quick appetizer or meal accom paniment, make and freeze them ahead then thaw and recrisp as directed.

Chewy Breadsticks

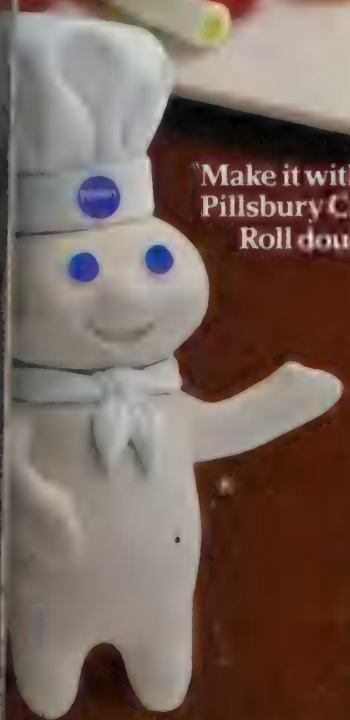
- 1 package active dry yeast
- 1½ cups warm (about 110°) water
- 1 tablespoon honey
- 5 to 5¼ cups all-purpose flour
- Melted butter
- Onion salt, garlic salt, or seasoned salt

In the large bowl of an electric mixer sprinkle yeast over warm water; stir t dissolve. On medium speed, beat i honey, then gradually beat in 3 cups o the flour. Beat well, until mixture pull away from bowl in stretchy strands.

With a heavy-duty mixer or wooden spoon, gradually add enough of the re maining flour to make a soft dough Knead on a lightly floured board unti smooth and elastic, about 10 minutes adding more flour as necessary. With a knife, cut the dough into 32 equal piece (quarter the dough, then cut each quarte into 8 pieces). Roll each piece into a 10 inch rope; arrange about 1 inch apart o greased baking sheets. Let rise in a warm place for about 15 minutes or unti slightly puffy.

Brush each rope lightly with butter, ther sprinkle lightly with seasoning salt. Bake in a 400° oven for 15 minutes or unti golden. Cool slightly on wire racks and serve. Or cool completely, then wrap tightly and freeze. To recrisp frozen breadsticks, allow them to thaw at room temperature, then bake uncovered in a 300° oven for 5 minutes. Makes 32 sticks.—*M. H., Davis, Calif.*

Make a "Beef 'n Cheese Crescent" dinner tonight!



"Make it with my Pillsbury Crescent Roll dough!"

Beef 'n Cheese Crescents

1 lb. ground beef
1/4 cup chopped onion
3/4 cup KRAFT Barbecue Sauce
6 slices DELUXE Pasteurized Process American Cheese Slices
2 (8-oz.) cans PILLSBURY Refrigerated Quick Crescent Dinner Rolls
2 teaspoons toasted sesame seeds

Heat oven to 375°F. Brown ground beef and onion; drain. Stir in barbecue sauce; set aside. Unroll dough into 4 long rectangles on ungreased cookie sheet. Overlap long sides; firmly press perforations and edges to seal. Pat to form 15x13-inch rectangle. Spread meat mixture lengthwise, in a 4-inch wide strip, down center of dough to within 1 inch of ends. Top meat mixture with cheese slices. Fold shorter sides of dough 1 inch over filling. Bring long sides of dough over filling, overlapping edges; pinch edges to seal. Sprinkle with sesame seeds. Bake at 375°F. for 20-25 minutes or until golden brown. Let stand 5 minutes before serving. 6 servings.

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Rolled fillets *of sole quickly poach in microwave oven. Then you chill them, to be served cold with a watercress sauce made from the cooking liquid*

TERI SANDIS

Quick elegance from the microwave...poached fish

In summer's heat, presenting an elegant company dinner can be a challenge. But if you own a microwave oven, you can poach fresh fish fillets in a matter of minutes, without heating up your kitchen.

Our three cool-sauced fish entrées are easily put together. You simply poach the seafood in a wine-based liquid, thicken the liquid to make a creamy sauce, then chill both the fish and sauce to serve later in the day.

Rolled Sole Fillets with Watercress Sauce

- 4 sole fillets (5 to 6 oz. *each*)
- 1½ teaspoons lemon juice
- 2 tablespoons dry sherry
- ¼ teaspoon chicken-flavored instant bouillon, dissolved in ¼ cup hot water
- ¼ teaspoon tarragon leaves
- ¼ cup packed chopped watercress leaves
- ¼ cup whipping cream
- 1 green onion, chopped
- 2 egg yolks

Pat fish dry. Roll fillets into loose cylinders and place, seam side down, in a shallow 2-quart glass baking dish. Stir together the lemon juice, sherry, bouillon mixture, tarragon, and 1 tablespoon of the watercress; pour over fish.

Cover dish with heavy plastic wrap and cook in microwave oven on highest setting (100%) for 4 minutes. Let stand, covered, for 4 minutes. Rearrange the fish so middle rolls are at ends of dish. Cover and cook on high (100%) for 3 to 4 minutes more or until the fish flakes when prodded in thickest portion. Transfer fish to a platter; cover and chill.

Pour fish liquid and cream into a small pan; boil to reduce to ½ cup liquid.

In a blender, combine remaining watercress, onions, and yolks; whirl until smooth. Add hot liquid and whirl until combined. Return mixture to pan and cook, stirring, over low heat for 1 to 2 minutes or until slightly thickened. Cover and chill.

Spoon part of the sauce over fish. Serve with remaining sauce. Serves 4.

Salmon with Mustard-Caper Sauce

- 4 salmon steaks (6 to 8 oz. *each*)
- ⅓ cup dry white wine
- ¼ cup whipping cream
- 1½ teaspoons Dijon mustard
- 2 egg yolks
- 1 tablespoon capers, drained
- Salt and white pepper

Pat fish dry. Arrange in a shallow 2-quart glass baking dish with meaty portions toward edges of dish; add the wine.

Cover dish with heavy plastic wrap and cook in microwave oven on high (100%) for 5 minutes; let stand, covered, for 5 minutes. Turn fish over, cover, and cook in the microwave on high (100%) for 2 to 4 minutes longer or until fish flakes when prodded in thickest portion. Transfer fish to a platter; cover and chill.

Pour fish liquid and cream into a small pan; boil to reduce to ½ cup liquid.

Blend mustard and yolks; stir in part of the hot liquid; stir back into liquid in pan. Cook over low heat, stirring, 1 to 2 minutes or until sauce thickens slightly. Stir in the capers and salt and pepper t taste. Cover and chill.

Spoon part of the sauce over fish. Serv with remaining sauce. Serves 4.

Red Snapper in Creamy Tomato Sauce

- 4 red snapper (or other rockfish) fillets (5 to 6 oz. *each*)
- 2 tablespoons dry white wine
- ½ cup (4 oz.) stewed tomatoes
- ½ teaspoon *each* dry basil and sugar
- ¼ cup whipping cream
- 2 egg yolks
- Salt and liquid hot pepper seasoning

Pat fish dry. Arrange fillets in a shallow 2-quart glass baking dish, overlapping thin ends, if necessary, in center of dish. Combine the wine, tomatoes, basil, and sugar; pour over fish.

Cover dish with heavy plastic wrap and cook in microwave oven on high (100%) for 3 minutes. Let stand 3 minutes, then turn fish, bringing cooked portions to middle of dish. Cook, covered, on high (100%) 2 to 4 minutes longer or until fish flakes when prodded in thickest portion. Transfer to a platter; cover; chill.

Whirl tomato-poaching liquid and cream in a blender until smooth. Pour into a small pan; boil to reduce to ½ cup.

In a small bowl, beat the yolks; stir in part of the hot liquid; stir this mixture back into liquid in pan. Cook over low heat, stirring, for 1 to 2 minutes or until sauce thickens slightly. Season with salt and liquid hot pepper. Cover and chill.

Spoon part of the sauce over fish. Serve with remaining sauce. Serves 4. □

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DARROW M. WATT

1 · *Broil-Bake*

For crispy chicken, pieces broil on one side, are turned, then finish cooking over boiling water in very hot oven to make them moist and tender

2 · *Simmer in sauce*

Breasts simmer in two stages. Cooking broth converts to zesty mustard sauce

3 · *Bake with fruit*

Fruit sauce gives chicken legs tangy-sweet flavor. Peaches are added partway through baking

As chicken hits a popularity peak, here are four ways to quick dinners

When you shop for meat for dinner, do you choose chicken more often these days? Evidently most of us do, for consumption has increased steadily and is expected to reach an all-time high this year—more than 50 pounds per person.

For value and versatility, chicken is hard to beat. And if you pick a recipe such as one of the four featured here, it can make a dinner that's quick and distinctive as well. Different techniques are used to short-cut messy, time-consuming steps like prebrowning. Each of these recipes starts with a cut-up chicken, legs and thighs, or breasts.

In the first recipe, chicken parts are broiled on one side, then finished with moist, high oven heat for crisp skin and moist, tender meat. In the second recipe, the chicken simmers, then finishes cooking in a mustard sauce made from the simmering liquid. In the last two recipes, the chicken bakes and browns simultaneously in a spicy, sweet-tart fruit sauce —peach or pineapple.

Broil-Bake Crispy Chicken

- 1 broiler-fryer chicken (about 3½ lbs.), cut up; or 6 legs and thighs, joined; or 3 whole chicken breasts, split
- Seasoned salt and garlic powder
- ½ teaspoon thyme leaves
- Boiling water

Rinse chicken pieces and pat dry. Lightly sprinkle both sides with the seasoned salt and garlic powder; then arrange, skin side down, on the rack of your broiler pan. Broil 4 to 6 inches from heat for 10 minutes or until chicken is lightly browned. Meanwhile, bring water to boiling.

Remove broiler pan from oven, adjust oven rack to center of oven, and reset oven to 500°. Turn chicken pieces over and sprinkle with thyme. Set broiler pan back in oven, then pour boiling water to depth of ½ inch into the pan under the chicken. Bake for 20 to 25 minutes or until chicken is brown and juices are clear when meat is slashed in thickest part. Makes 4 to 6 servings.

Simmered Chicken in Mustard Sauce

- 1 broiler-fryer chicken (about 3½ lbs.), cut up; or 6 legs and thighs, joined; or 3 whole chicken breasts, split
- 2 cups water
- 2 chicken bouillon cubes
- 4 tablespoons *each* butter or margarine and flour
- 1 cup milk or half-and-half (light cream)
- 2 tablespoons Dijon mustard
- ½ teaspoon thyme leaves
- Salt and pepper
- 3 tablespoons chopped parsley
- New potatoes, rice, or noodles

Arrange chicken pieces in a 4- to 5-quart Dutch oven. Add the water and bouillon cubes. Bring to a boil, reduce heat, cover, and simmer for 20 minutes. With a slotted spoon, remove chicken from broth and set aside. Skim fat from broth, measure, and set aside 1¾ cups broth (use any extra broth for other purposes).

In the Dutch oven, melt butter over medium heat. Add the flour and cook, stirring, until bubbly but not browned. Remove from heat and gradually stir in the warm broth until blended. Stir in the milk, return to heat, and cook, stirring, until it boils and thickens. Add the mustard, thyme, and salt and pepper to taste.

Remove large pieces of skin from chicken, if you wish, then return chicken to the sauce. Continue simmering until chicken is tender, about 12 to 15 minutes. To serve, lift chicken out of the

se and arrange on a rimmed serving di skim fat, if needed, then stir in pa ley. Pour sauce over chicken. Serve w the potatoes, rice, or noodles. Se es 4 to 6.—*I. R., Sacramento.*

Chicken Baked with Peaches

Spicy fruit sauce (directions follow)
broiler-fryer chicken (about 3½ lbs.), cut up; or 6 legs and thighs, joined; or 3 whole chicken breasts, split
Salt, pepper, and paprika
green pepper, coarsely chopped
cup slivered or sliced almonds (optional)
2 cups sliced, peeled fresh peaches or 1 can (29 oz.) sliced peaches, drained

Prepare the sauce.

In a 9- by 13-inch baking pan, arrange the chicken pieces, skin side up. Sprinkle lightly with the salt, pepper, and paprika. Add green pepper, pour the sauce over all, then sprinkle almonds (if used) over chicken. Bake, uncovered, in a 375° oven for 30 minutes. Remove pan from oven and add peach slices, pushing them down into sauce.

Return pan to oven and continue baking, basting once or twice, for 20 to 25 minutes or until juices are clear when meat is slashed in thickest part. To serve, lift chicken pieces to a serving plate, skim fat from sauce, then spoon it over chicken. Makes 4 servings.—*A. L., Redwood City, Calif.*

Spicy fruit sauce. In a pan, blend 1 tablespoon cornstarch with ¾ cup orange juice. Stir over medium heat until it boils and thickens. Remove from heat and stir in 2 tablespoons cider vinegar; cup Major Grey's chutney; 1 large clove garlic, minced or pressed; 2 tablespoons brown sugar; 1 teaspoon *each* dry basil, ground cinnamon, and nutmeg; and ¼ teaspoon ground ginger.

Chicken Baked with Pineapple

Follow directions for the Chicken Baked with Peaches, omitting the spicy fruit sauce and peaches. Substitute the following sauce:

Drain juice from 1 can (20 oz.) pineapple chunks; measure and set aside ¾ cup of the juice and the pineapple. In a small pan, blend 1 package (amount for servings) onion soup mix and 1 tablespoon cornstarch. Stir in the ¾ cup pineapple juice and let stand for 5 to 10 minutes. Then bring to a boil over medium heat, stirring until it boils and thickens. Stir in 3 tablespoons lemon juice, 2 tablespoons *each* brown sugar and soy sauce, and ½ teaspoon *each* ground ginger and rosemary leaves.

Pour sauce over chicken and bake as directed. After chicken has baked for 30 minutes, remove from oven, add pineapple, pushing pieces down into sauce. Finish as directed. Makes 4 servings.—*M. D., Morro Bay, Calif.* □

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Wilderness

Nobody Knows Fresh Fruit Better

DARROW M. WATT

Slices of garlic sausage *are arranged over sliced steamed potatoes, then topped with a light vinaigrette sauce for a simple, hearty meal*

AUGUST MENUS

Sausage and potato supper, easy-on-the-cook, hot or cold. Continental breakfast. Fish steaks on the barbecue

In August's heat, you'll want to do little cooking as possible. Our easy-o the-cook menus start with a sliced sa sage and potato vinaigrette dish. Then turn a simple breakfast into a spec occasion, you can whip up an oran honey cheese to spread on warm brea And for an easy way to cook fresh fi steaks, our last menu suggests grilli them quickly on the barbecue.

Easy sausage supper

If you have any left over, this sausa and potato dish is equally good serv cold or at room temperature (reheati will break down the sauce).

Sausage and Potato Vinaigrette
Steamed Whole Carrots
Gingered Fruit Tumble

The French garlic salami is a full cooked sausage that needs only reheati to serve. It's often available in special meat markets, but you may have t order it several days ahead. If you hav trouble finding it, the dish is equall good prepared with Polish sausage o garlic knackwurst.

Whole carrots will take about the sam time to cook as potatoes, so let the steam along with the potatoes or coo separately.

Sausage and Potato Vinaigrette

- 4 or 5 large (about 3½ lbs. total) baking potatoes
- 1 egg yolk
- 1 teaspoon Dijon mustard
- ¼ cup white wine vinegar
- 1 cup olive or salad oil
- ¼ teaspoon tarragon leaves
- 2 green onions, chopped
- 1 tablespoon chopped parsley
- 1 clove garlic, minced or pressed
- Pinch sugar
- Salt and pepper
- 1½ pounds French garlic salami, kielbasa, or garlic knackwurst
- Watercress

Peel the potatoes and arrange on a steamer rack in a kettle over boiling water. Cover and steam until tender when pierced, about 30 minutes. Meanwhile, in a small bowl, whisk together the egg yolk, mustard, and vinegar with a wire whip. Add the oil in a slow, steady stream, whisking constantly, until vinaigrette thickens. Stir in the tarragon, onions, parsley, and garlic. Add the sugar, then season to taste with salt and pepper.

In a frying pan over medium heat, bring about 1 inch water to a gentle simmer. Add the French salami or other sausages, cover, and simmer gently until heated through, about 7 minutes; do not boil or casings may burst. Drain, remove casings if necessary, then slice into ¼-inch-thick slices; keep warm.

When potatoes are tender, transfer to a

THE SESAME NUT MIX SEDUCTION.

Or, why it's impossible to resist the mystical combination of Planters® Sesame Sticks, Peanuts, and Cashews.

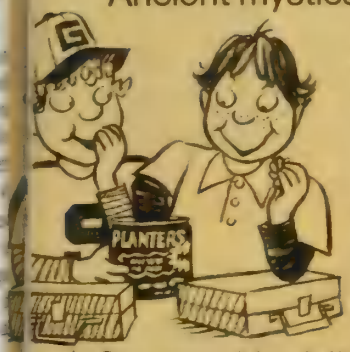
A word of caution about Planters Sesame Nut Mix: It's a delicious conspiracy to enslave your taste buds. (Rumor has it the recipe comes from a chef who is a direct descendant of Ali Baba.)

Who is strong enough to say "no" to the crunchy goodness of Planters fresh-roasted peanuts?

To that, add the delicious taste of Planters curvy cashews. (Ever notice how a Planters cashew is always smiling at you when you hold it upside down... or is it downside up?)

And, finally, add Planters golden sesame sticks with their good-for-you nutty taste and abundant cruunnch. Just one cruunnch and your hand will go slavishly from our mix to your mouth.

And yet, perhaps those exotic sesame sticks are the most beguiling. Ancient mystics claimed sesame possessed magical powers. (Wasn't it the favorite snack of genies?)



Naturally this mix is enough to make your belly dance with delight. But while bedtime snackers may love them, the crunchy crescendo can keep the Sandman from someone trying to sleep. And kids snacking them in the lunchroom can drown out the sounds of lunch with their crackling crunch. So handle Sesame Nut Mix with caution. You'll be seduced. Deliciously.

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DARROW M. WATT

A continental breakfast *for two on the patio—creamy orange cheese to spread on warm croissants, muffins, or toast, and a compote of fresh summer fruit. Serve with café au lait if you wish*

warm serving plate. Cut each crosswise into ¼-inch-thick slices, keeping potato shape intact. Pour half the vinaigrette over the potatoes, then top with the hot sausage slices. Pour remaining vinaigrette over all. Serve hot. Garnish with a bunch of watercress. Serves 4 to 6.

Gingered Fruit Tumble

Crumble 12 gingersnaps into small crumbs. To serve, spoon 4 to 6 cups berries, sliced peaches, or melon cubes into dessert dishes. Serve gingersnap crumbs, sour cream or unflavored yogurt, and brown sugar or honey in separate bowls to top individual servings as desired. Makes 4 to 6 servings.

A continental breakfast

Whirling cottage cheese with a small amount of cream cheese makes a creamy spread that's rich in flavor but not calories.

Orange Honey Cheese Spread
Croissants, Bran Muffins, or Raisin Toas
Summer Fruit Compote
Café au Lait

Prepare the cheese spread just befor serving or in advance; covered and r frigerated, it keeps up to 1 week.

To make café au lait, make a pitcher hot coffee and one of hot milk and pou them simultaneously into cups.

Orange Honey Cheese Spread

½ pint (8 oz.) small curd cottage chees
1 small package (3 oz.) cream cheese, at room temperature
2 tablespoons honey
¾ teaspoon grated orange peel

In a blender or food processor fitte with a plastic blade, beat together th cottage cheese, cream cheese, honey, an orange peel until *very* smooth an creamy. Makes 1½ cups.

Summer Fruit Compote

In small bowls or stemmed glasses, com bine your choice of fresh or canne fruits such as melon cubes, pineapple chunks, sliced strawberries, sliced ba nanas, grapes, or orange segments; allow about 1½ cups for a serving. For every two servings, pour 1 can (6 oz.) peach

How Bernstein Got To Be The First Name In Italian.

n in 1906, nobody worked harder or got up earlier than Perry Bernstein. Every day he at dawn shopping the farmer's for supplies for his little New elicatessen. Perry was a hard ner. But most of all he was r for freshness and quality.

hat went especially for the gs he and his wife Ida con- for their vegetables and salads. ipened tomatoes from the little farms across the river; pure inegar; eggs so new-laid they till warm.

lis customers ate it up. Bernstein, this dressing is ous! Do me a favor, just ittle in a bottle and let ce it home!"

erry was happy to ; after all he *was* a essman. And that's ernstein's first began known for very l dressings.

ward the Bernsteins.

The second generation ver and the family d lock, stock and es to California.

This was dream try for a salad dressing Wonderful fresh vegetables and condiments, and a population crazy about salads. The Bernsteins' bottled dressings did so well they had to move the operation out of the back of their restaurant and into its own plant.

The Italian dressing was a best seller from the start. Three generations of Bernsteins perfected the formula over the years, until they had a perfectly balanced blend of 22 ingredients. Which is exactly how we make this dressing today.

With so many would-be imitators, we'd be balmy if we told you *everything* that goes into Bernstein's Italian dressing.

Il Segreto: Tutti Naturale!

But we don't mind admitting that those 22 magic ingredients are still specially selected for freshness and flavor, as they were in Perry's day. And that they include pure vegetable oil, cider vinegar, pungent onion and garlic, our own secret blend of the world's finest spices and herbs (like coriander from Morocco and savory from France) and a bit of robust Italian *vino*.

But now as then, nothing artificial in the way of preservatives, colorings, flavorings.

"Everything should be 100% natural," said Perry in 1906, for he truly believed salad dressings were an art. "Serve stew if you must. But never scrimp on the salad."

And that, salad lovers, is how Bernstein got to be the first name in Italian — and a dozen other worthy dressings and sauces.

Buon appetito!

BERNSTEIN®

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What the well-dressed banana is wearing this summer.

Nestlé's easy-to-make Banana Pops.

They're frozen bananas covered with Nestlé® Semi-Sweet Chocolate Morsels, Milk Chocolate Morsels or Butterscotch Morsels.

They're the top banana for deliciously nutritious summertime treats.

Banana Pops

4 ripe bananas, peeled
8 wooden popsicle sticks
1 6-ounce package (1 cup) Nestlé® Semi-Sweet Real Chocolate Morsels, Milk Chocolate Morsels, or Butterscotch Flavored Morsels
1 measuring tablespoon vegetable shortening
Chopped nuts (optional)
Shredded coconut (optional)

Cut bananas in half crosswise. Insert wooden stick in end of each and freeze. Melt Nestlé Morsels over hot (not boiling) water; stir in shortening. Coat each banana half with chocolate or butterscotch mixture, roll immediately in nuts or coconut, if desired. Wrap each pop in aluminum foil or put in freezer bags and store in freezer. Makes 8 pops.

Nestlé

© 1981 The Nestlé Co., Inc.

or apricot nectar over the fruit. Garn with a mint sprig if desired.

Grilled seafood dinner

When fish steaks are grilled over ch coal, they develop a rich smoky fla that is further enhanced by a spoon of creamy mustard sauce.

Grilled Fish Steaks with Mustard Sauc
Warm Garlic Tomatoes
Crusty French Bread Butter
Peach Sundae with Hot Chocolate Sau

Choose thick, firm-textured fish stea such as swordfish, halibut, sea ba salmon, or sturgeon. You can warm tomatoes in a pan directly on the barb cue grill, or heat them in the kitchen.

Grilled Fish Steaks with Mustard Sauc

1½ to 2 pounds fish steaks, *each* about 1 inch thick
Olive oil or salad oil
¼ cup *each* dry white wine and whipping cream
1 tablespoon Dijon mustard
2 tablespoons firm butter or margarine cut into 2 pieces
Salt and pepper

Wipe fish with a damp cloth; brush ea side with oil. Place fish steaks on a we greased grill 4 to 6 inches above a sol bed of medium-glowing coals. Coo turning once, for 5 to 8 minutes on ea side or until fish flakes easily whe prodded with a fork. Transfer to a war serving platter; keep warm.

In a small pan, combine the wine, crea and mustard. Bring mixture to a bo and boil rapidly until volume is reduce to about ¼ cup. Remove from hea with a wire whip or wooden spoon, be in butter until sauce is thickened an creamy. Season with salt and peppe Spoon sauce over fish. Makes 4 serving

Warm Garlic Tomatoes. In a heavy fr ing pan or other metal pan, melt 2 table spoons butter or margarine over the h coals (or set frying pan over medium high heat). Stir in 2 tablespoons *eac* chopped parsley and green onion and large clove garlic, minced or pressed Add 3 large tomatoes, cut in wedges and turn gently just until heated through about 5 minutes. Sprinkle with salt an pepper to serve. Makes 4 servings.

Peach Sundae with Hot Chocolate Sauc

4 ounces semisweet chocolate, coarsely chopped
6 tablespoons whipping cream
2 large peaches, halved, pitted, and peeled
About 1 pint vanilla ice cream

Place the chocolate and cream in a smal pan over lowest heat possible. Stir constantly until melted and well blended.

Place the peach halves in individua sherbet glasses. Top each with a scoop of ice cream, then drizzle warm sauce over top and serve. Makes 4 servings. □

How to make a kitchen
With Thermador's hoodless Cook 'N' Vent system.
s a griddle. And a grill. And a 4-element cooktop. And it ventilates itself.
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The exhaust intake is close to the cooking surface, so it captures odors as efficiently as a hood. And unlike some other hoodless cooktops, the Cook 'N' Vent doesn't alter the cooking process by drawing air across the food.
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DAVID ST

Yesterday's *vegetables, marinated overnight, go into today's green salad*

Leftovers marinat in the dressing

Fixing a fresh salad for one or two pe ple day after day is easier with one these dressings in your refrigerator. Bo double as marinades for leftover cook vegetables.

Mix the dressing in a generous-size or refrigerator container and collect in bits of raw or cooked vegetables. T next day, simply lift out the marinat vegetables with a slotted spoon to ser on lettuce or spinach leaves or to m with some of the dressing, to a mix green salad. The remaining dressi goes back into the refrigerator un you're ready to marinate more veg tables. Each dressing keeps up to eral weeks.

Herb Dressing

In a 2- or 3-cup container, combine cup salad oil, 3 tablespoons white wi vinegar, and the juice of 1 lemon (about tablespoons). Add 1 tablespoon choppe parsley or ½ teaspoon dried parsle flakes; ¼ teaspoon *each* rosemar thyme leaves, and salt (optional); and teaspoon pepper. Beat with a wire whis until well blended. Makes about 1 cup.

Tomato Dressing

In a 2- to 3-cup container, combine cup salad oil and ¼ cup white wi vinegar. Add 2 cloves garlic (minced c pressed), 1 teaspoon sugar, ¼ teaspoo salt, and 1 tablespoon Dijon mustar stir to mix. With a wire whisk, beat in tablespoons catsup and a dash of liqui hot pepper seasoning until smooth an well blended. Makes about 1 cup.

Dragon kabobs-my recipe for breathing sizzle into cookouts."

The Royal Dragon

ROYAL DRAGON® KABOBS

- ⅓ cup Blue Bonnet® Margarine, melted
- ¼ cup soy sauce
- 2 tablespoons lemon juice
- 2 tablespoons Dry Sack® Sherry
- 2 tablespoons honey
- 1 teaspoon crushed fresh garlic
- Royal Dragon Shaomai, Spring Rolls, Cocktail Spring Rolls, or Wonton
- Green Pepper squares • Mushrooms
- Red Pepper squares • Pineapple chunks
- Cherry Tomatoes • Water Chestnuts

Combine margarine, soy sauce, lemon juice, sherry, honey and garlic; set aside. Skewer a combination of Royal Dragon Dimsum alternately with vegetables and fruit. Place over hot coals. Brush with prepared sauce; turn and brush again. Grill until golden; 5 to 7 minutes on each side, brushing occasionally with sauce. Serve with remaining sauce if desired.

Look for other delicious recipe ideas where Royal Dragon® Chinese Dimsum is displayed in your grocer's freezer.

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SNACK TIME, MEAL TIME, ANY TIME

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GUST IN YOUR GARDEN:

It's payoff time for flower and vegetable planters. It's think-ahead time for future planters

ng is the top priority for garden- s month. All your planting and nance efforts should be paying off summer vegetables and annuals their peak. If you feel energetic, n start sowing seeds or putting out ants of fall vegetables and annuals e check list for choices).

er eucalyptus seedling source

May 1981 *Sunset* (page 286), we 19 nurseries that sell eucalyptus gs for large-scale plantings such lwood groves. Another firm also eucalyptus seedlings: Churches' ry, Box 399, Altaville, Calif. .

ursery sells three different species alyptus: *E. gunnii, polyanthemos, obusta.* No minimum order is re- ; lead time for orders is one to six s. Two sizes of trees are available: -inch plastic pots (50 cents each), -by-4-inch pots (75 cents apiece).

nore on growing your own fire- see page 214 of the February *Sunset.*

ur rhododendrons suffer from ot, check your watering habits

rchers at the University of Cali- have recently discovered that ex- s of soil moisture (too wet or dry) root damage to rhododendrons, g them more susceptible to inva- by root rot fungus. An infected will have yellowing, wilted leaves eventually drop.

educe chances of root rot, you d be particularly attentive to watering during hot weather: don't let rhododendrons dry out so much that the leaves wilt, but don't overcompensate by keeping the soil constantly soggy.

Short cut for watering and feeding container plants: a dunking tub

With dozens of small container plants and moss baskets to water and feed, Charlotte Allen of Lafayette, California, found that keeping them in prime condition during hot summer weather was a demanding task.

To ease caretaking chores, she found a simple solution: a galvanized metal tub filled with water. She dips the container or basket into the tub (pictured at right) until the plant is saturated. When plants need feeding, she mixes in some fish emulsion with the water. This method reduces water waste since most of the runoff goes back in the tub. It's also easier to mix up a big tub of fertilizer than to mix several smaller batches.

Galvanized tubs are available at hardware stores. Or you could use a large plastic container.

After the blackberry harvest, it's time to prune, restrain plants

If you have blackberry plants in your garden, you should now be enjoying a luscious harvest. However, if your plants are old enough to bear fruit (at least two seasons in the garden) but your yield has been poor, now is the time to rectify the problem. Blackberries need pruning in late summer or early fall to encourage a bountiful crop the following season. And rambunctious canes should be secured to a trellis or other support.

After harvesting berries, cut the bearing canes to the ground (they won't fruit again). New, nonfruiting canes that have sprouted this year should be trained on a fence, trellis, or other support. Thin out all but 12 to 16 canes; trim each back to 6 to 8 feet; secure them to a support. For example, Louis Bertolone of Los Altos, California, found that a

Sunset's
GARDEN GUIDE

Special information for high elevations, page 160

DARROW M. WATT

Basket of campanula *gets quick watering and feeding by immersion in tub filled with fertilizer solution*

t satisfaction: August planting, September bloom

ursery bins this month for corms of crocus-like colchicum or bulbs of nge lycoris (spider lily). These plants give almost instant satisfaction: you hem into the ground in August or September, and flowers pop up the g month. Leaves appear in winter or spring, long after blooms have faded. *radiata,* pictured at left, also comes with white blossoms; it will withstand ld frosts. *L. squamigera,* which has rosy pink flowers quite different in s hardy if planted in a protected site. Colchicum is quite hardy and comes in lavender-pink to purplish shades.

t outdoors in the ground, bury bulb tips 3 to 4 inches below the soil surface. regularly from planting time until leaves dry up in late spring. Then ease off ring until new growth appears. Plant them with Mediterranean climate such as the purple perennial statice (*Limonium perezii*).

Sunset's GARDEN GUIDE

NORMAN A. PLATE

'Olallie' berries *thrive on this chain link fence. Fruiting canes will be removed after harvest*

chain link fence makes an excellent support (see the photograph at left).

If you'd like to plant blackberries in your garden, wait until winter when bare-root canes are available in nurseries. You will get your first fruit the second season.

When you cut flowers makes a difference

Summer brings a colorful show of annual flowers in the garden. You may want to share a bouquet with friends or bring blooms inside for decoration.

Best cutting times are early morning or after sundown. Most flowers stay fresh longer if cut when blooms are only one to two days old; the exception is zinnias, which last longer when picked after the center has started to open and the yellow parts are showing, as pictured in the photograph at right.

Cut stems at an angle; recut stem tips every one to three days. You may also want to add a commercial flower preservative mix (available in small packets) to the water in the vase.

New manual describes herbicides

When other weed- or brush-control methods fail, an application of the proper herbicide can dispatch unwanted plant intruders. But some herbicides can damage certain landscape plants.

If you feel the need to use herbicides, a new manual can familiarize you with these chemicals. Just published by the University of California, the *Directory of Herbicides for Use in the Home Garden* is available for $6.39 from Agricultural Sciences Publications (1422 Harbour Way S., Richmond, Calif. 94804).

This 135-page paperback lists herbicides by brand names, describes them, and tells which plants they destroy. (It is generally best to use an herbicide that has a limited target since broad-spectrum products are more likely to damage desirable plants.) Also, under each product listing, note is made of the landscape plants or crops on which the chemical can safely be used. □

DARROW M. WATT

Zinnia is ready *for cutting when yellow center first starts to show*

AUGUST CHECK LIST: *Here is summer action*

☐ **Care for chrysanthemums.** Remove all but one or two buds per stem if you want extra-large flowers. Fertilize plants until buds begin to open.

☐ **Care for fuchsias.** Prolong bloom by picking off faded flowers and fertilizing. Keep up with watering, since plants in containers can dry out rapidly.

☐ **Care for lawns.** Tropical grasses such as Bermuda and zoysia are growing fast now. Feed lightly and water regularly to help them keep up the pace. If your lawn shows footprints after you walk on it, give it water immediately.

Attentive watering can help cool-season grasses such as Kentucky bluegrass, bents, and fescues hold their own against summer heat. They'll perk up once cooler fall weather arrives.

☐ **Care for perennials.** Coreopsis, delphinium, penstemon, Shasta daisies, and yarrow will flower again in fall if you cut them back to within 6 inches of the ground as soon as flowers fade this month.

☐ **Care for roses.** Snip off faded blossoms, water as needed, fertilize lightly, and remove any unwanted suckers.

☐ **Divide iris.** You still have time to divide bearded iris. For detailed instructions, see page 186 of the July 1980 *Sunset*.

☐ **Feed flowers and shrubs.** Azaleas, camellias, and rhododendrons appreciate a light feeding this month. Continue fertilizing begonias, fuchsias, summer annuals, and container plants.

☐ **Plant annuals.** You can start sowing winter-blooming annuals in flats now if you protect seedlings from hot sun. They will be ready to transplant into the garden in four to eight weeks. Sow seeds of calendula, candytuft, fairy primrose, forget-me-nots, nemesia, pansies, snapdragons, stock, and violas. Keep flats moist.

☐ **Plant perennials.** Sow seeds in flats now for transplanting later. Some choices include basket-of-gold (*Aurinia saxatilis*), columbine, coreopsis, dianthus, gaillardia, geum, heuchera, Iceland and Oriental poppies, polyanthus primrose, Shasta daisy, and wallflower.

☐ **Plant vegetables.** Gardeners who live near the coast can start winter vegetables from seed or transplants, or you could hurry and get in a late planting of a summer crop. Plant beans, beets, broccoli, Brussels sprouts, cabbage, cauliflower, lettuce, onions (seeds or sets), peas, and spinach.

In the Central Valley, you can plant this month for an early winter harvest. Plant beets, cauliflower, Chinese cabbage, kale, lettuce, radishes, and spinach.

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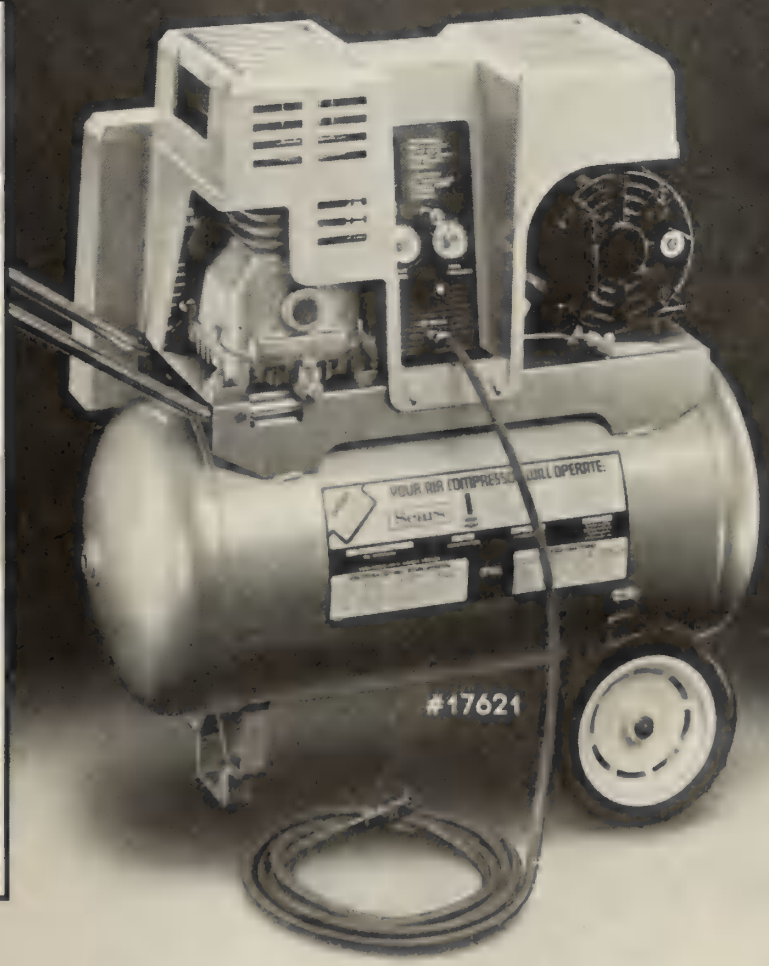

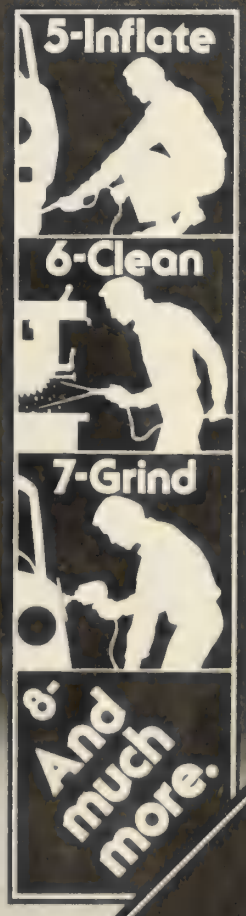

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Five-inch cutting *from new growth on holly is for propagation; leaves will be stripped off bottom half before planting*

Mist nozzles *in pipe keep cuttings moist; electrical lines under rooting mix warm them. It took 10 weeks for roots to form*

Rooted cutting, *ready for transplant, has healthy root mass; new growth appears where top leaves meet stem*

When your need is mass production . . . softwood cuttings

Two months ago we reported the cut-and-callus method of starting small numbers of relatively large hardwood cuttings (page 218 of the June *Sunset*). But if you need to mass-produce plants —as you might for ground covers, hedges, or windbreaks—the way to do it is with softwood cuttings, and the time to do it is now.

You can get plants faster from softwood cuttings than you can from most seeds. It costs almost nothing to propagate the cuttings, and they'll mature into exact copies of their parents. We show the process with holly and azalea, but it works as well with hundreds of trees, shrubs, vines, and ground covers common in California gardens.

While many plants root well outdoors in garden loam, most will do better in a more humid greenhouse or propagating box. Use a 4-inch-deep mixture of equal parts of sand and presoaked peat; a heating cable underneath the mix can hasten rooting.

For cuttings, choose healthy new growth; to test, bend it sharply—it should snap off. (If it doesn't snap off, it's too old; if it crushes, it's too young.) From the parent plant, cut off 4 or 5 inches of tip growth just below a leaf. Remove any flowers or fruit from the cutting and strip leaves from its bottom half.

Dip the cut end into rooting hormone, plant the cutting so its bottom half is buried, and water. Never let the sand and peat mix dry out completely. Rooting can take from 1 to 9 months; new growth is one signal that roots have formed. Another test is to pull gently on the cutting. Rooted ones will resist. □

Just before planting, *bottom end of azalea cutting gets dipped in hormone preparation (lower right corner) to stimulate rooting. After she fills the propagating box, she'll cover it with plastic to maintain higher humidity*

LARRY BULLIS

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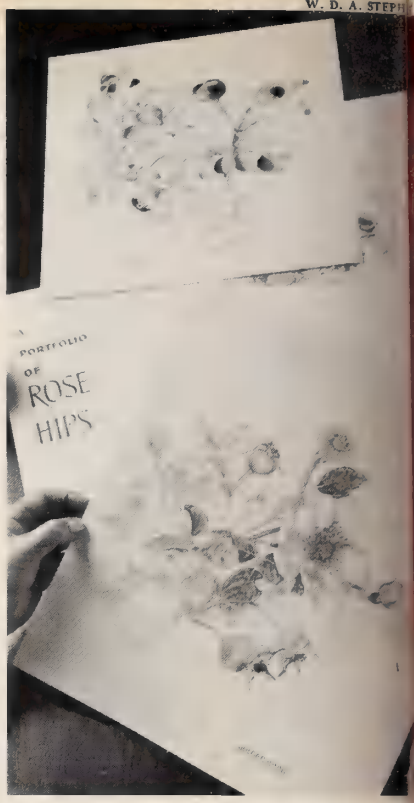
And remember to give your plants plenty of growing room by repotting them periodically into larger pots.

For fuller, greener, healthier plants, nourish them with Knox.

*3 applications

W. D. A. STEPH



Which ones *to frame? Rose hips portfolio gives you twelve choices*

Old rose watercolor

. . . accurate, pretty

Old roses are the specialty of the recen founded Sweetbrier Press in Palo Al California. Its latest publication, *A Po folio of Rose Hips,* will delight old ro fanciers and general gardeners alike.

The dozen 14- by 16-inch watercolors Jessie-Chizu Baer are accurate enou to satisfy even critical botanists; they a also sensitively drawn and tinted.

The watercolors emphasize hips (ro fruits), but also show flowers of the roses that display both at the same tim The artist has painted foliage in pa silvery tones to throw fruits and flowe into higher prominence.

John C. MacGregor IV, curator of t extensive rose collection at the Huntin ton Library and Art Gallery, has fu nished detailed notes.

The regular edition sells for $25; the are 1,000 sets of a limited edition, nu bered and signed by artist and author, $35. Packaging and shipping charge $1.75, and California residents shou add 6 percent sales tax. Order fro Sweetbrier Press, 536 Emerson St., Pa Alto 94301.

Visitors to the Huntington Library San Marino, California, can buy t portfolio at the bookstore there.

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DON NORMARK

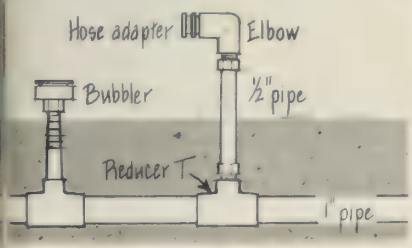
se coupling *connects to buried PVC e that delivers water to bubblers*

A bubbler for each rose

eping roses watered in summer was a e-consuming chore for Wendy Los of mpia, Washington, until she installed ubbler for each plant. A buried PVC e, connected to an aboveground hose pling, delivers water to a bubbler in- each plant's watering basin.

build a similar system, use 1-inch wall PVC pipe (about 20 cents a t) in a 6-inch-deep trench. Or, if dig- would damage roots, put the pipe the soil surface and cover with mulch light deteriorates PVC).

each plant you'll need a 1-1-½- T; an 8-inch-long, ½-inch-diameter eaded riser; and a screw-on bubbler.



r a surface system, use a short riser ed a nipple.) This plumbing will cost ut $4.50 per plant.

the hose connection, you'll need to ch a T or elbow, a 10- to 12-inch e, another elbow, a nipple, and a ale hose adapter to the main PVC e. To keep out insects, put a rubber sher with a screen filter in the adapter. d a vacuum breaker at the other end he hose to prevent back siphoning.

w many bubblers can one hose feed? k your supplier how many gallons per ute each bubbler delivers (usually 1 1½ gpm). Measure the full-force flow m your hose by timing how many sec- ls it takes to fill a 1-gallon container. ide that number into 60. (If it takes econds, that's 10 gpm—enough for 10 ds rated at 1 gpm each.) □

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DON NORMARK

Pocket patio *only 5 by 5½ feet provides a private niche within this small-scale grove. Deciduous trees and shrubs included among dogwoods, azaleas, rhododendrons, and bulbs help capture spring sun but cast cool shade in summer. Design by Richard W. Painter, Lake Oswego, Oregon*

Rumpled green pelt *of Korean gr (Zoysia tenuifolia) forms a springy co between the pines. Own the A. C. Johnson, Jr., family, San Di*

Garden getaways

A place to sit and a little privacy . . . here are five special garden hideaways

Add a place to sit down, and a garden becomes even more inviting. Your seat can be a bench, a hammock, or just a grassy spot between some trees. Here we show five such garden spaces—cozy places to think, talk, read, look, or just soak up some sun. We call them garden getaways.

In each example, the owners took advantage of favorite plants to provide walls, roof, or carpeting for their retreat. Some started from scratch; others cleared and pruned, then added plants and structures to personalize an existing part of the garden.

JERRY FREDRICK

ound, rocks, and a board *converted a conventional lawn i this meadowy retreat. Unclipped grass around rocks a at base of trees completes the untamed illusion. Owners: cy and Dean Linscott, Mill Valley, California*

NORMAN A. PLATE

Rest stop *midway down new stairway provides a mini-deck with treetop view. Owners: Fred and Gloria Li, Los Altos, California*

DARROW M. WATT

at makes a garden spot intimate?

n a hint of privacy helps. Just an airy h of branches can make the world n miles away.

l plants with scent or texture—a can- of honeysuckle or jasmine, or a car- of creeping thyme or zoysia grass.

e yourself a view. If you can't go up, our gardeners with the midair deck plant your own view all around. hard Painter's deck sits in the middle his favorite flowering trees, shrubs, bulbs.

l some seasonal surprises—bulbs that up unexpectedly in summer or fall, or foliage that changes color.

Places that are already cool and shady have most potential.

To begin, try a few mental additions and subtractions in places that seem sparse or overgrown. You may be surprised how little it takes to convert one of these unused spaces into a comfortable hideaway. □

Hammock supports *of peeled posts sunk in concrete enable owners to swing in shade without damaging trees—even when they were newly planted saplings*

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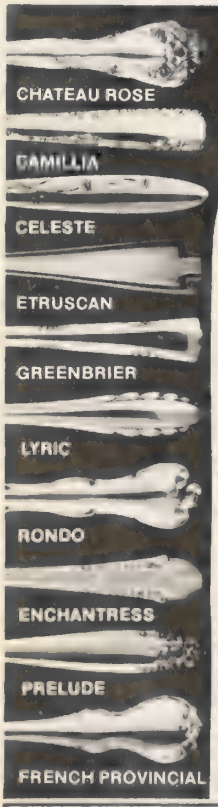

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DARROW M. WAT

Difference *between upright rosemary (left) and more common trailing rosemary (righ is apparent even in 1-gallon specimens*

Rosemary that stands at attention

Aromatic green foliage, tiny blue flow ers, and an almost indestructible cha acter have made the commonly availabl prostrate rosemary (*Rosmarinus offic nalis*) a popular ground cover, cascadin bank cover, or herb garden plant.

Now gardeners can also get the tal growing upright rosemary (*R. o.* 'Tusca Blue') at many nurseries. This plant als has the scented foliage of the more com mon variety, but flowers tend to be deeper blue. Sturdy branches growing u from the base of the plant can reac 10 to 12 feet high if unpruned. Th plant makes an attractive hedge or singl accent specimen.

Unfortunately, considerable confusio has arisen concerning the name of up right rosemary. You may find it labele *R. o. forrestii* or *R. o.* 'Lockwood d Forest' even though these properl designate a prostrate form.

To determine whether a plant is an up right rosemary, examine the nurser specimen closely. The upright type i quite distinct from the prostrate, a our picture shows. Look at the leaves on the upright form, they're usuall plumper. Also ask a member of the nurs ery staff to identify the plant being sold A prostrate rosemary in a gallon ca may look deceptively upright if it ha been growing in crowded conditions.

Rosemary does well in almost all West ern climates, except areas that have snow in winter. Although generally drough tolerant, it appreciates regular waterin in desert areas (be sure that drainag is excellent).

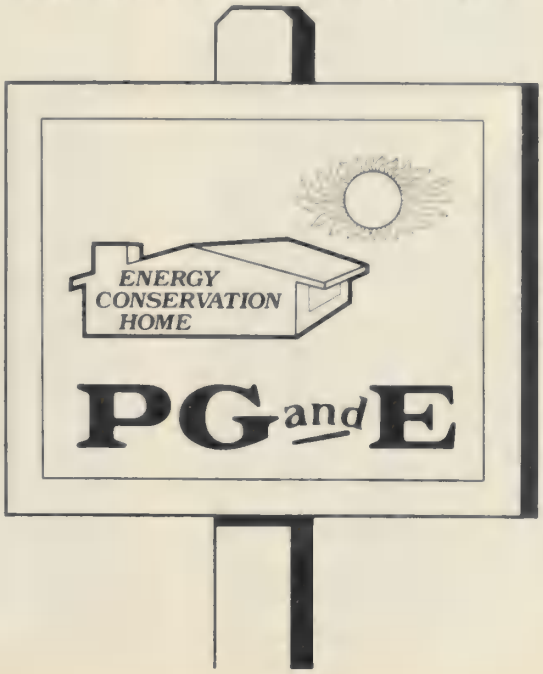
SOME HOUSES GUZZLE ENERGY LIKE IT WAS GOING OUT OF STYLE.

You probably wouldn't buy a car without asking what kind of mileage it gets. And you shouldn't buy a house without finding out how energy-efficient it is.

Look for a house with a sign out front that says Energy Conservation Home. That means the house has been designed to keep you comfortable all seasons, without relying so heavily on energy from PG&E. The appliances run on less fuel, the lighting uses less electricity.

In the years to come, energy costs will make up a substantial part of your monthly payments. And some houses just sit there, guzzling.

LOOK FOR ONE THAT DOESN'T.



Can't-reach-'em hollyhocks in one, fish pond in another, citrus on "the farm"

These San Diegans have seven mini-gardens within their big garden

More kinds of plants than most gardeners would even attempt fit into Clay and Katherine Allred's 60- by 99-foot San Diego lot.

How did they do it? The Allreds drew up a simple but careful plan first, concentrating on plants that grow up, not out, and grouping plants into seven mini-gardens. Each one, shown in the diagram below, has a theme and a purpose.

SIDEWALK GARDEN. At the front sidewalk, cascading plants spill over a 3-foot retaining wall to create up-close color for people walking by.

ROSE GARDEN. Most of the front garden, also visible to passersby, is planted in a collection of roses. Low-growing annuals fill out the beds, and vines climb trellises behind the roses.

FRONT PORCH GARDEN. Actually a corner of the rose garden space, this small bed is dominated by the Australian tree fern you see in the photograph at far upper right. Plants include poinsettia, lantana, clivia, chrysanthemums, pelargoniums, and various bulbs.

Hanging on the porch are baskets of impatiens, begonias, and other shade plants that change with the seasons to maintain bloom year-round.

SIDE GARDEN. The narrow side yard has two palms, shade trees, a persimmon, a 'Gordon' apple, and a half-barrel containing three tomato plants. (San Diego's soil nematodes damage many tomato varieties planted in the ground.)

PATIO GARDEN. Covered near the house, open to the sky farther back, this paved area features an octagonal fountain and fish pond with water lilies as well as benches, eating space, and container plantings. One planter box contains several species of bamboo; others have fig, nectarine, peach, and banana trees. Six kinds of vines, plus hibiscus and mixed flowers carry through the flower garden's seasonal plantings.

FLOWER GARDEN. The largest and most spectacular of the mini-gardens boasts a year-round display of color from vines, bulbs, perennials, and annuals that are planted with lowest ones in front, tallest in back.

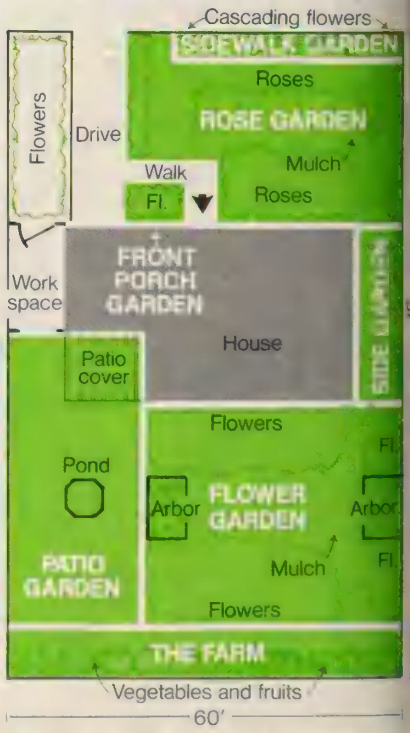
The 7-foot-deep beds are filled with flowers planted so that their bloom periods overlap: as calendulas are losing their bloom, petunias are coming into flower and several bulbous plants are at their peaks.

THE FARM. Out of sight behind a vine-covered trellis, this 3-foot-wide raised bed across the back of the lot contains a concentrated array of vegetables, dwarf fruit trees, other fruits. Something is ripe almost every day of the year.

Because of its intensity, the garden requires regular maintenance. The Allreds are retired, so have time for lots of gardening. Some portions of the garden are hand-watered; others are on sprinklers or drip irrigation. □

CHAD SLAT

Relaxing in the shade *of a passion vine, they can look out to sunny patio garden with octagonal fountain, and to extensive flower garden (foreground)*



Seven gardens in one: *maximum use of each area comes from careful grouping*

Taller than his reach, *hollyhock in flower garden tops 10 feet. Thunbergia, clematis, other vines climb light trellis behind him; plants include gladiolus, marguerites*

Roses surround owners *at front of house. Visible to passersby, garden also has sweet alyssum, mixed annuals, tree fern*

Dozens *of vegetables and fruits grow in raised bed across back of lot*

Ambling August...unhurried gardening mostly
Vegetables peaking, watering peaking

Sunset's HIGH-ELEVATION GARDEN GUIDE

August is the unhurried month in high-elevation gardens. Long, sunny days stretch into warm evenings. Your vegetable garden should be at its peak of productivity: check it regularly for ready-to-harvest crops. Watering is a top priority, but an occasional late-afternoon shower may ease your workload.

Removing lowermost branches may stunt your trees' growth

Several years ago, foreign horticultural researchers reported that removing the lower branches of young trees resulted in slower growth. Since that time, observations at many experiment stations in the West have supported that claim. Researchers in Colorado have noted that removing low branches from young trees reduces their ability to develop new roots, slows the growth of trunk diameter, and causes problems such as sunscalded bark when shading branches are removed.

If you want the fastest growth from trees you've planted for shade or screening, don't be too eager to prune off the lowermost branches.

However, remove suckers that appear at the base of trees or that grow from the roots; they can rob your trees of vigor.

Two ground covers that work well with paved walkways

Here are two ground covers that can tolerate light foot traffic, require minimal care, and can soften the hard-edged look of paving.

The first is moneywort or creeping Jennie (*Lysimachia nummularia*). In the flagstone walkway pictured directly above, plants were set about 18 inches apart; they quickly filled in gaps. Their roundish leaves are shiny green. Yellow flowers, about 1 inch across, appear in early summer.

A good choice for drier areas is woolly thyme (*Thymus pseudolanuginosus*). In the path shown at right above, plants were started at each corner of the 16- by 16-inch exposed aggregate paving blocks. Woolly thyme forms a gray-green undulating mat 2 to 3 inches high. Tiny pink flowers appear only rarely.

DON NORMARK

Flagstones nestle *in 6-foot-wide swath of moneywort rimmed by lawn in this Colorado garden*

Checkerboard pattern *is softened by woolly thyme planted in gaps between aggregate pavers*

Grass clippings—leave or remove?

When you mow your lawn, you can collect the clippings in a grass catcher or rake them up afterwards. Better yet (if you don't let the grass get too tall between mowings), you can leave them where they fall, saving yourself effort and the cost of extra fertilizer.

Clippings are 75 to 80 percent water, 3 to 6 percent nitrogen, ½ to 1 percent phosphorus, and 1 to 3 percent potassium. Calcium and other nutrients are also present. As clippings break dow they fertilize the soil. Lawns where cli pings are removed require up to 2 ext pounds of nitrogen per 1,000 squa feet per year.

AUGUST CHECK LI

☐ **Divide perennials.** To increa your supply, divide colum bine, delphinium, German iris, Or ental poppies, peonies, and Shas daisies.

☐ **Feed some plants.** Lawn appreciate a feeding wit high-nitrogen fertilizer now. Fee vegetables with a complete fertilize to keep them producing as long a possible. *Do not feed fruit or shad trees* (feeding now could encourag tender new growth which could go killed by an early fall frost).

☐ **Harvest fruits and vegetables** Check the garden daily fo

W dflower seed mixes . . . fo moist or dry mountain areas

L summer and early fall are the d l times to sow seeds of perennial w flowers for spring bloom. Most w flowers will bloom with no soil prep- ar ion, but you'll get best results by ct vating lightly and mulching with or nic matter after sowing.

W lflower mixes may be planted alone or combined with native grass seeds. T ounces of wildflower seed will c r about 300 to 500 square feet; for g ses, sow 8 ounces over the same ar . For best results, keep the seeded a moist with daily waterings for about e to four weeks after you sow. Once es blished, the plants need little or no w er.

S e wildflowers to try for dry areas are b d tongue (*Penstemon strictus*), blue fl , California poppy, chicory, cone- fl er, cornflower, gaillardia, gypsophila, p rie aster, sunflower, and yarrow.

I noister areas, such as on the banks of st ams, try columbine, rocket larkspur (*L lphinium ajacis*), baby blue eyes (*Ne- m hila menziesii*), dame's rocket (*Hes- p s matronalis*), gayfeather (*Liatris sp ta*), ox-eye daisy, coreopsis, and sc let flax (*Linum grandiflorum*).

B wn-bagging garlic chives ps save their seeds

G lic chives are easy to grow, and their n l flavor is a delicious addition to any sa d. If you already grow garlic chives, y know how easily they reseed them- se es—often where they aren't wanted in he garden.

S kane gardeners Eugene and May E ris sidestep this problem by snipping o all but a few ripe seed heads. To save s e seed for fall planting, they tie a sm ll paper bag over several remaining se l heads, pictured above. This pre- v ts the seeds from scattering.

Tie paper bag *securely over garlic chive seed heads to save seeds for fall planting*

A few days after you tie the bag over them, the seeds will be ready to harvest. After harvesting, let seeds dry for about a week in an open jar.

For garlic chives early next year, plant your saved seeds in September or October. Mountain winters won't hurt them at all. If you don't have a patch of garlic chives, plant store-bought seeds this fall.

Water-thrifty landscaping . . . ideas for all gardeners

A new book, *Landscaping for Water Conservation in a Semi-Arid Environment*, deals with plants, garden structures and lighting, irrigation, mulches, soil types, soil grading and contouring, and water-saving features that homeowners can install to reduce the use of water.

This 95-page book has been published by the Aurora Water Conservation Office, 1470 S. Havana Ave., Aurora, Colo. 80012, and should be of interest to anyone interested in home water savings. The cost of $4.50 includes postage and handling. □

Fe ling, dividing, even some planting

c ps at the peak of flavor: beets, b ccoli, bush beans, cauliflower, c n, new potatoes, strawberries, s mer squash, tomatoes, and zuc- c ni. Cut peppermint and hang in b ches to dry for tea.

☐ **Plant for fall harvest.** Sow seeds of carrots, leaf lettuce, p sley, spinach, and radishes for fi h vegetables this fall and into w ter. In areas that don't get frost u il the end of September, you can s out transplants of broccoli, cab- b e, cauliflower, and kale now.

☐ **Plant lawns.** Now's a good time to start new lawns from seed or sod. You can also reseed or patch bare spots in existing lawns. Keep newly seeded or sodded lawns moist until they are well established.

☐ **Prune sucker growth.** Crab- apples, birch, hawthorn, ma- ple, Russian olive, and willows may produce some suckers or water- sprout growth (vertical shoots that grow from branches or trunks). Prune as soon as you see them.

☐ **Water.** Deep-water flowers, vegetables, and lawns. Fruit trees in particular need plenty of water this month so that their fruit will develop to maximum size.

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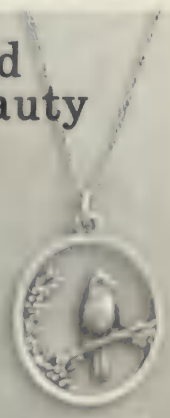

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rounding hot tub *are schefflera, nandina, and cup-of-gold-vine overhead arbor. Impatiens and pelargoniums fill half-barrel*

DON NORMARK

Alfresco dining *takes place on deck adjoining hot tub. Cup-of-gold-vine, Monterey cypresses provide shade*

Baby's tears *make thick ground cover. Semperflorens begonias surround tree*

Hot tub seclusion on a tiny lot

is Orange County garden is proof that small suburban garden can be secluded ough to accommodate a hot tub.

hen owners Betty and Roger Dargitz Garden Grove bought their house ght years ago, they wanted more visual ivacy and a barrier to noise. Garden- g space in the rear measured a tiny 27 42 feet, and neighbors were right er the back and side fences.

As a solution, they planted a mixed screen of palms, Monterey cypress, nandina, ivy, and a yucca. These, plus an orange, a Santa Rosa plum, and other trees planted nearer the house, created dense shade in the garden. This limited the ground cover choice to baby's tears (*Soleirolia soleirolii*), a good bet for shade anywhere it doesn't snow; if it is damaged by frost, it recovers quickly.

The small concrete patio edged with bricks adjoins the house. Across the baby's tears "lawn," a raised deck is fitted with a hot tub and a small covered dining area, both shown in the other photographs. The garden also includes a small rocky waterfall with a pond. Despite the lush appearance, Mrs. Dargitz calls it "the most low-maintenance garden we've ever had." □

It's show time for fuchsias. Also begonias, dahlias, herbs, mushrooms . . . and sales, classes, lectures, other events

NORTHERN CALIFORNIA

San Francisco. August is the month to apply for entry to docent training at the Strybing Arboretum, Golden Gate Park. Telephone the education department of Strybing Arboretum Society at (415) 661-1316 weekdays between 9 and 4:30.

Sacramento. August 1 and 2. Annual begonia show presented by the Sacramento Begonia Society. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 6 Saturday; 10 to 5 Sunday. Free.

Saratoga. August 8. Second annual iris rhizome sale and summer show by the Clara B. Rees Iris Society. Place: El Paseo de Saratoga Shopping Center, Saratoga and Campbell avenues. Hours: 10 A.M. until sold out.

Walnut Creek. August 8. Annual fuchsia plant sale by the Diablo branch, American Fuchsia Society. Place: patio adjacent to Fidelity Savings, 1910 Tice Valley Blvd. (in the Rossmoor Shopping Center). Hours: 10 to 4, or until all plants are sold.

Citrus Heights. August 8 and 9. Annual dahlia show by the Sacramento Chrysanthemum and Dahlia Society. Place: Fountain Square Nursery, 7115 Greenback Lane. Hours: noon to 6 Saturday; 9 to 6 Sunday. Free.

Hikes to Winnemucca Lake, Boulder Lake. Two outings by the California Native Plant Society. *August 8:* San Francisco chapter hike of Winnemucca Lake timber-line plants. For information, call Rich Ownbey at (415) 342-6820. *August 25:* North Coast chapter, Trinity County group. Hike to Boulder Lake. For information, call Sylvia Thomas at (916) 623-5369.

Ross. August 9. Marin Fuchsia Society festival. Place: Marin Art and Garden Center, Sir Frances Drake Blvd. Hours: 10 to 4. Free.

Saratoga. August 9. Open house at Saso Herb Gardens, 14625 Fruitvale Ave. Hours: 10 to 4. For information, telephone the gardens at (408) 867-0307.

San Jose. August 15. Daruma Folk Festival by the West Valley JACL and Senior Club with traditional activities and foods by local Japanese-Americans. Place: parking lot of Saratoga Lanes, Prospect Rd. and Saratoga Ave. Hours: 10 to 5. Admission is free.

Daly City. August 15 and 16. Show and plant sale by the Pacifica branch of the American Fuchsia Society. Place: Serramonte Shopping Center Mall, Interstate 280 at State Highway 1. Hours: 10 to 5 both days. The show is free.

San Leandro. August 15 and 16. San Leandro Dahlia Society show. Place: Bayfair Shopping Center, E. 14th St. and 155th Ave. Hours: 9:30 to 5:30 Saturday; noon to 5 Sunday. Free.

Petaluma. August 16. Fuchsia show and plant sale by the Petaluma chapter, American Fuchsia Society. Place: Kenilworth Recreation Center, Fairgrounds Dr. Hours: 11 to 4. The show is free.

San Francisco. August 21, 22, and 23. Forty-fourth annual San Francisco County Fair flower show. A plant sale has been added this year. Place: Hall of Flowers, Golden Gate Park, Ninth Ave. and Lincoln Way. Hours: 10 to 6 daily. Plant auction Sunday at 2. Admission: $2.50; seniors, $2; children under 12, free. The show will feature demonstrations by authorities on plant care, flower arranging, potting, and pruning.

McCloud. August 22. Annual flower and art show sponsored by the McCloud Garden Club. Place: Old McCloud Dairy Barn, southeast corner of Highway 89 and Southern Ave. Hours: 10 to 5. Free.

Eureka. August 23. Fuchsia show and plant sale by the Eureka branch, American Fuchsia Society, in conjunction with the AFS Fuchsia Festival. Place: Carson Memorial Building, Harris and J streets. Hours: 10 to 5. Show is free.

Hayward. August 29 and 30. East Bay Dahlia Society show. Place: Southland Shopping Center, off Nimitz Freeway (State Highway 17) at W. Winton Ave. Hours: 9:30 to 5:30 Saturday; noon to 5 Sunday. Free.

MOUNTAIN STATES

Colorado Springs. August is the month to mail entries for the amateur photography contest to Photo Contest, Horticultural Art Society, Box 9812, Colorado Springs, Colo. 80932. Each entry is limited to three 35mm slides of plants or gardens. For an application, telephone Betty Mull at (303) 598-4215. Entries will be judged in early September, with a show later that month.

Salt Lake City. The State Arboretum o Utah in conjunction with the Murray B Allen Center for the Blind is offerin classes for blind people interested i learning more about plants and horticul tural techniques. For further informa tion, write to the University of Utal Arboretum, 018 Greenhouse, Salt Lak City 84112; or call (801) 581-5322.

Denver. August 4 (Tuesday), 6 (Thurs day), and 8 (Saturday). Class on small space gardening. Place: Classroom A Denver Botanic Gardens, 1005 York St Hours: 7 to 9 P.M. Tuesday and Thurs day; 9 to noon Saturday. Fee: members $6; nonmembers, $8. For necessary reservations, telephone (303) 575-2547.

Denver. August 11. Class on canning and freezing garden produce. Place: Classroom B, Denver Botanic Gardens Time: 9:30 A.M. Free.

Salt Lake City. August 19. Lecture on evergreens with a walk to view some of them with W. Richard Hildreth, director of the State Arboretum of Utah. Meet in front of the Arboretum Center, University of Utah, at 7 P.M. Free.

Denver. August 23. Annual Mushroom Fair presented by the Colorado Mycological Society. Place: Denver Botanic Gardens. Hours: 11 to 4:45. The show is free.

Colorado Springs. August 25. Walk plus discussion of plant problems by Dr. James Feucht, Colorado State University horticulturist. Place: Monument Valley Park, Glen Ave. and Mesa Rd., with the walk through the adjacent Colorado College campus. Time: 2 P.M. Free. For more information, telephone Betty Mull at (303) 598-4215.

Denver. August 26 through 28. If you're involved with community gardening in a mountainous area, you may want to attend a conference on the problems of conducting a community garden in the high-elevation West. Community gardeners from any area of the mountainous West are invited to attend and share their experiences.

If you can't attend, you might write in to describe your program so a network of mountain community gardens can be formed.

For details, write or call John Brett, Denver Botanic Gardens, 909 York St., Denver 80206; (303) 575-2547. □

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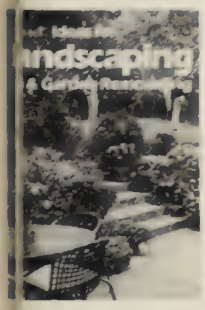

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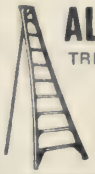

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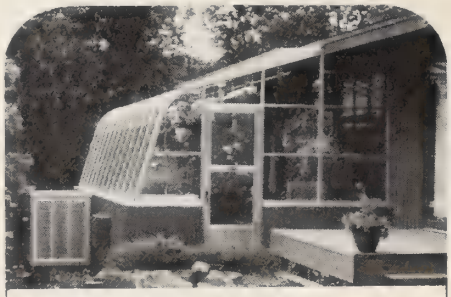

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bigger *than a pencil point, anium budworm crawls across petal king for a good spot to eat*

Petunia and eranium muncher

nching through flower buds, the no- ious budworm (also called tobacco lworm) spoils the colorful show of ny geraniums and petunias this time year.

ese ¼- to ¾-inch, greenish-to-tan ped caterpillars eat pinhead-size holes leaves and flower buds, causing oms to shatter (drop their petals) pre- turely. You can't usually spot the erpillars, but you might notice their sty droppings.

fortunately, these small creatures are icult to control. The moths lay eggs developing flower buds in spring. By time the caterpillars hatch, the blos- ns are large enough to provide a cozy ven. The petals shield the dining cater- lars from most insect sprays—and ke it almost impossible to pick them by hand.

e contact chemicals sevin and diazi- n, as well as the biological control *cillus thuringiensis* (sold as thuricide, el, and biotrol), can knock out un- ry caterpillars that are strolling on the ves. But they miss most of the others.

stemic products — disyston, metasys- -R, and orthene—are more effective, ce after a plant absorbs the chemical juices are poisonous to the budworm. these products, orthene generally ovides the best control.

using these insecticides, follow label rections carefully (do not use the sys- mics on food crops). Also, since all cept *Bacillus thuringiensis* are deadly bees, spray in the evening after bees ve stopped foraging. □

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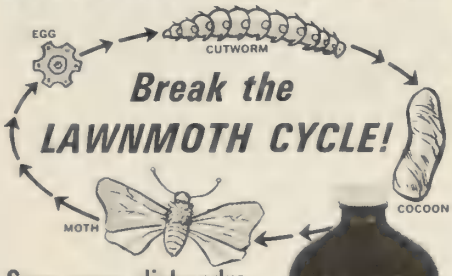

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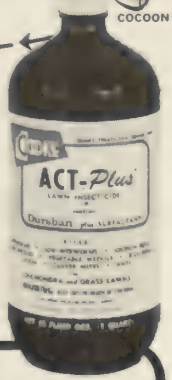

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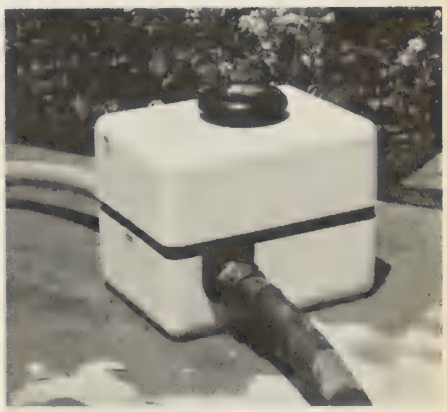

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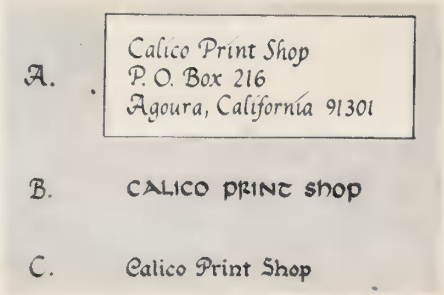

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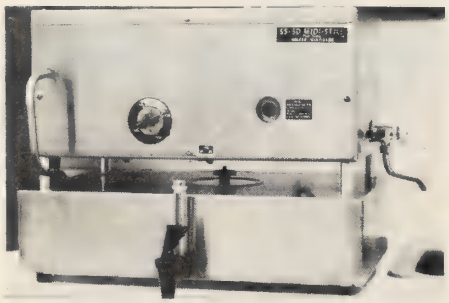

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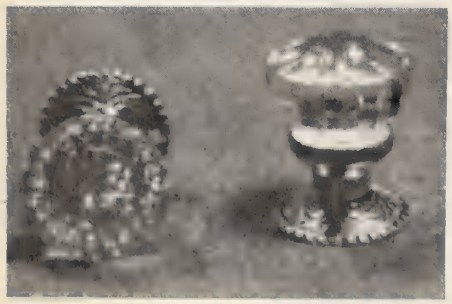

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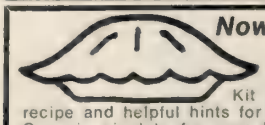

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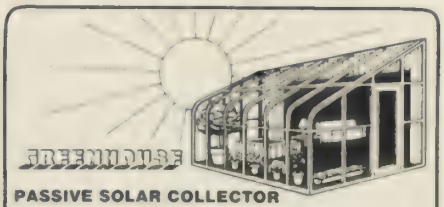

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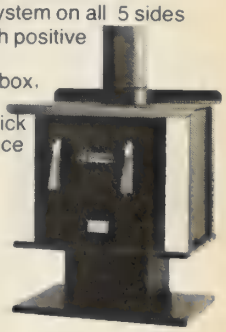

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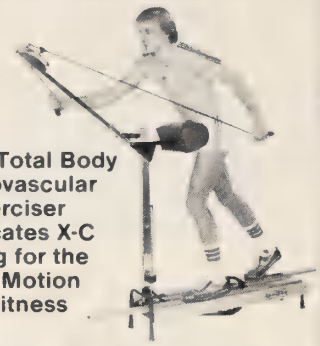

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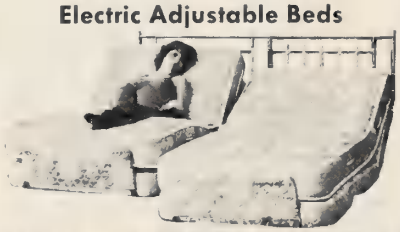

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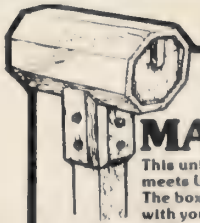

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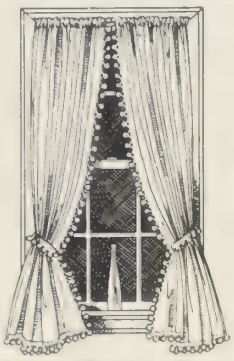

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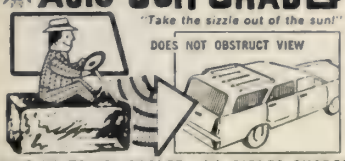

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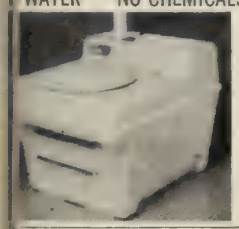

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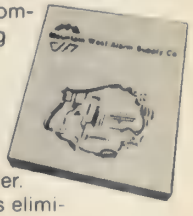

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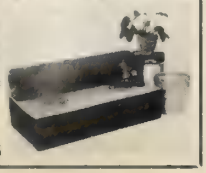

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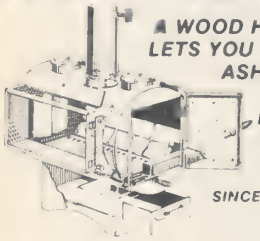

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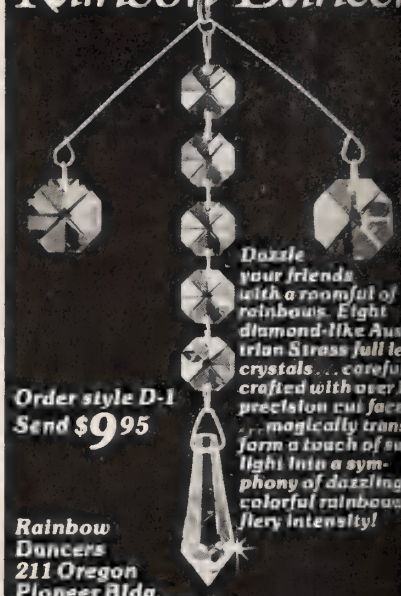

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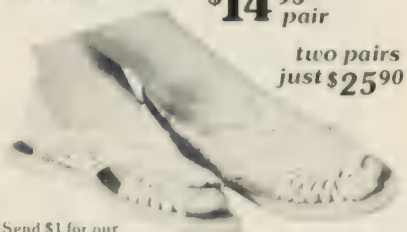

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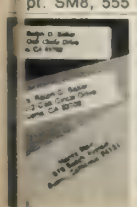

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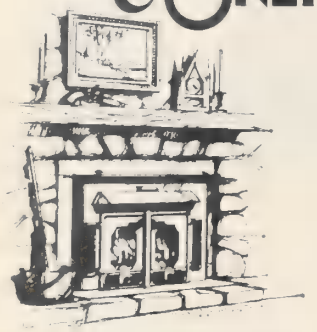

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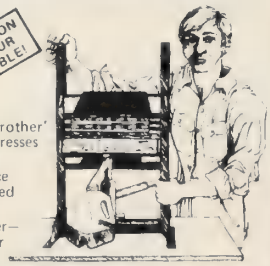

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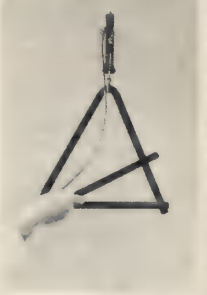

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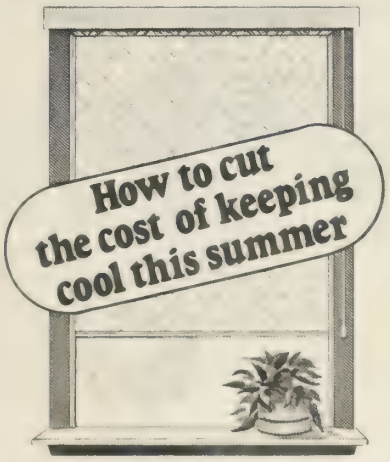

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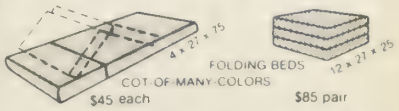

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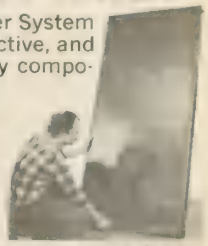

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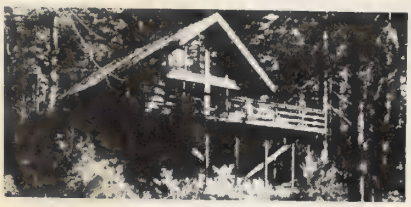

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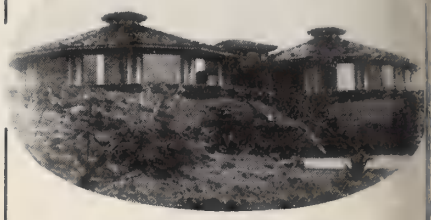

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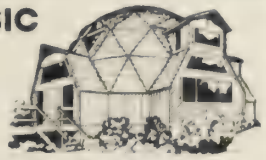

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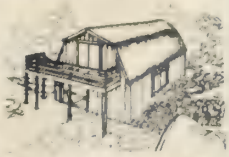

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LETTER FROM *Sunset*

The new high-flying archeology

A quiet revolution in technology is speeding discovery and mapping o the West's trove of archeological sites—and possibly buying time t plan their protection in the face of increasing encroachment by man.

The heart of this technology is a process called "remote sensing," whic means sophisticated interpretation of photographs and other data pro vided by high-flying aircraft and earth-orbiting satellites. Several goverr ment land-management agencies have used aerial reconnaissance fo years, but its application to archeology is new—and producing som dramatic results.

Aerial reconnaissance has several advantages. It allows scanning fo ancient sites more quickly, less expensively, and on a far greater sca than would ever be possible on the ground. Much of the photograph is stereoscopic, providing precise three-dimensional measurement. Con puters help manipulate photographs to bring out traces that migl escape the human eye. This adds up to a new "nondestructive arch ology," which discovers sites and then leaves them be, rather tha probing ruins and leaving them exposed to harm.

You saw some of the first results in *Sunset's* May 1981 feature on th newly established Chaco Culture National Historic Park in northwester New Mexico, a proving ground for much of this new technology. Th studies were carried out by the Remote Sensing Division of the Nation Park Service in cooperation with the University of New Mexico i Albuquerque. Now the division's innovations are being felt all aroun the West.

On Montana's eastern border, for instance, reconnaissance has pro vided an extremely accurate topographic map to help site facilities i the Fort Union Trading Post National Historic Site. In Arizona, satelli imagery has helped reconstruct the course of ancient Hohokam cana that threaded through what is now downtown Phoenix. In Wyomin photography of Grand Teton National Park will help guide Jackso Hole town planning.

The biggest project so far: producing an "environmental map" of th National Petroleum Reserve on Alaska's North Slope—23 *million* hard to-survey acres that include traces of previously unknown villages tha can now be clearly mapped and protected as oil drilling proceeds.

And a still larger effort is now underway: using normal Air Force re connaissance training flights to develop maps of the West's more tha a hundred existing and planned National Park Service properties.

More discoveries like Chaco's roads (see caption below) will surel turn up as remote sensing techniques evolve. But the biggest payo may already be at hand: as the West's historic areas are faced with fast-growing population and demands for resource development (alon with nature's own threats), we now have space-age means to detec and, we hope, to preserve the best of our ancient cultural resources.

WINDOW ON THE WEST: *Labwork, fieldwork*

Using a modern stereoscope (above), a technician scans aerial photographs in three dimensions. One early payoff was the discovery and mapping of some 270 miles of startlingly wide, straight roads radiating from New Mexico's Chaco Canyon. Before, Chaco had been considered an isolated site; now it seems to have been the center of an ancient nation the size of Belgium. Stairway (below) was precisely cut into a hillside to let the road continue uphill.

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2 ripe California Avocados
1 Tbsp. lemon or lime juice
2 tomatoes, finely chopped
½ cup chopped green onions, including tops
¼ tsp. Lawry's Garlic Powder with Parsley, (optional)
Lawry's Seasoned Salt, to taste
2 Tbsp. diced green chiles, (optional)

Cut avocados in half. Remove pits. Carefully scoop out fruit and reserve the skin of 4 half shells intact. Lightly mash fruit with fork to keep coarse, chunky texture. Add lemon juice, tomatoes, green onions, Lawry's Garlic Powder with Parsley (optional), and blend well. Season to taste with Lawry's Seasoned Salt. For a hotter, more spicy filling, add green chiles. Spoon California Avocado salad into half shells that have been set aside and serve immediately.

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